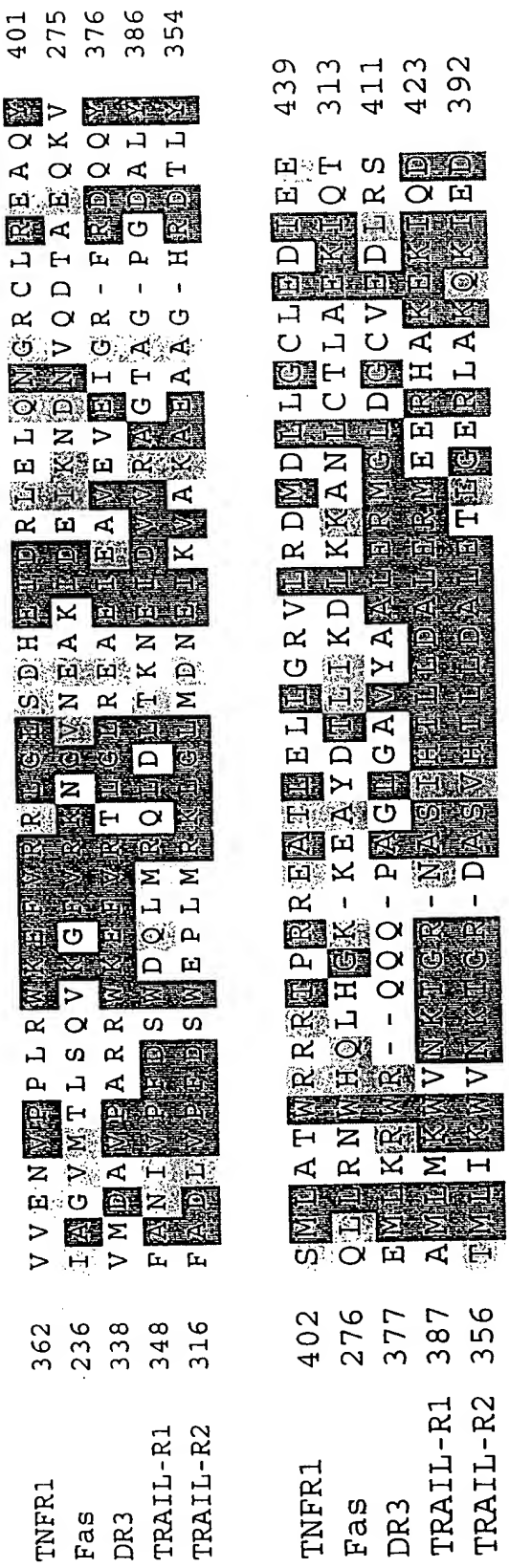

Figure 1

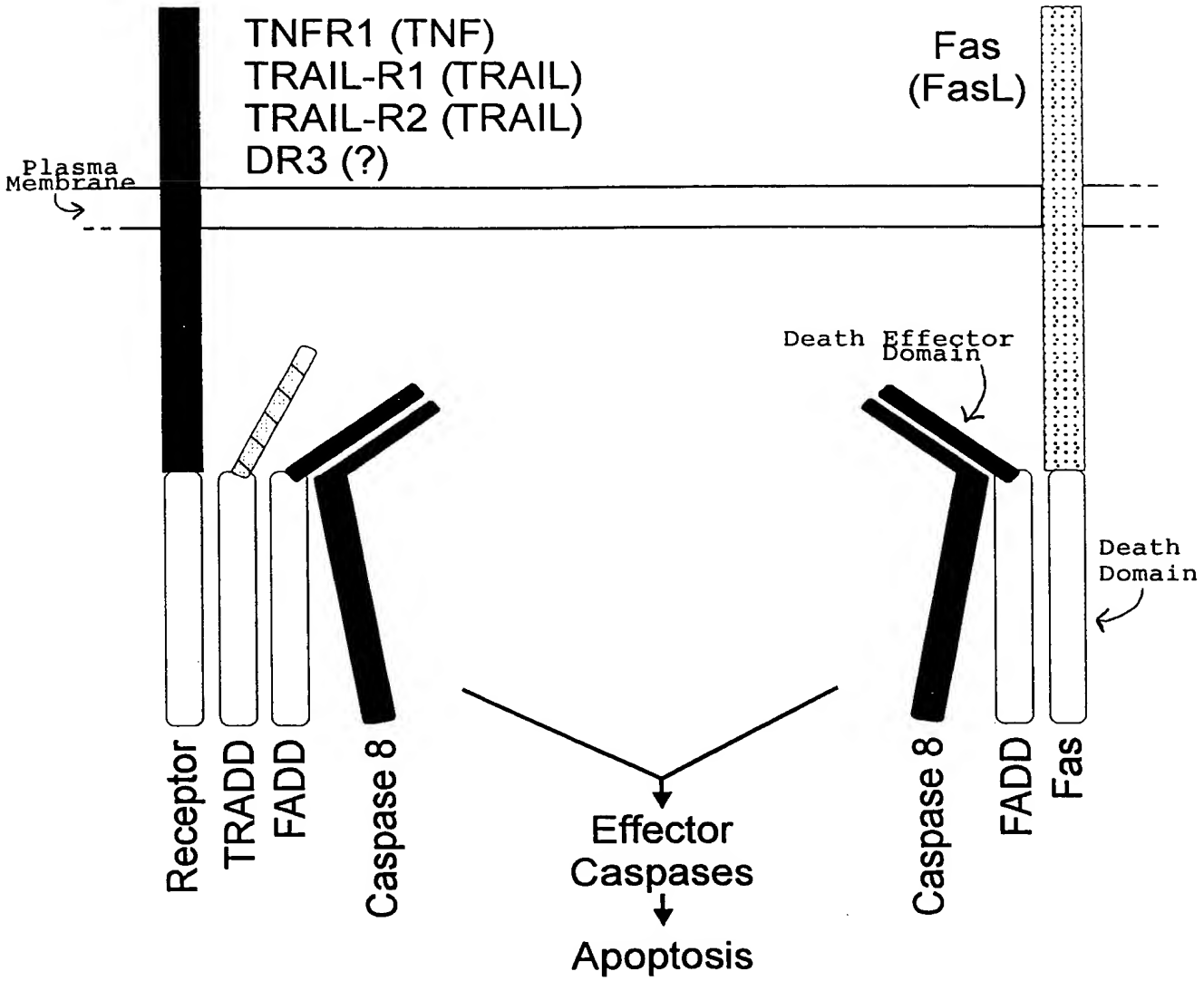
TNFR1 (TNF)
TRAIL-R1 (TRAIL)
TRAIL-R2 (TRAIL)
DR3 (?)
Fas
(FasL)
Plasma
Membrane
Death Effector
Domain
Death
Domain
Receptor
TRADD
FADD
Caspase 8
Effector
Caspases
Apoptosis
Caspase 8
FADD
Fas

FIGURE 2

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RID COMPLEX

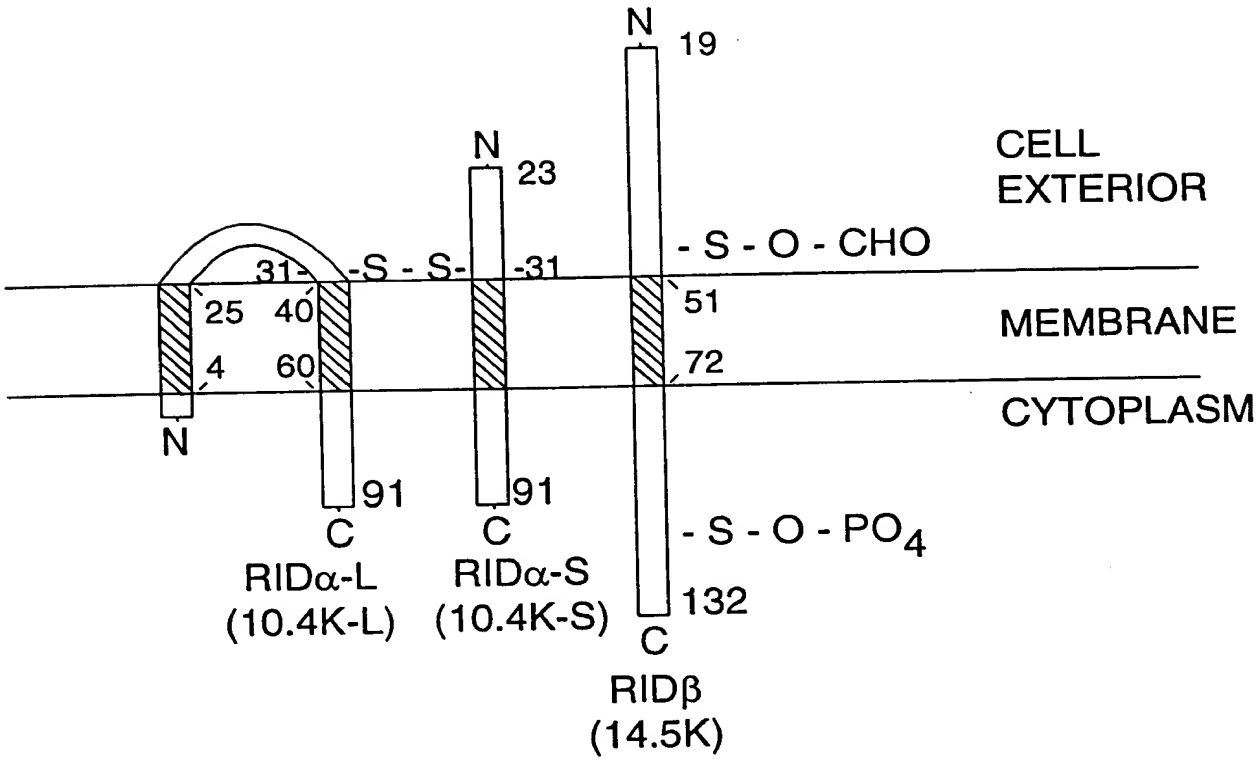

Figure 3

RIDα-L (10.4K-L)

```
                    10                  20
M I P R V L I L L T L V A L F C A C S T L A A V A H I E
        signal sequence

 30                 40                  50
V D C I P P F T V Y L L Y G F V T L I L I C S L V T V V
    *                                transmembrane

     60                  70                  80
I A F I Q F I D W V C V R I A Y L R H H P Q Y R D R T I

          90
A D L L R I L
```

Figure 4A

RIDα-S (10.4K-S)

```
                   10                  20
A V A H I E V D C I P P F T V Y L L Y G F V T L I L I C
                   *                    transmembrane

 30                 40                  50
S L V T V V I A F I Q F I D W V C V R I A Y L R H H P Q

        60
Y R D R T I A D L L R I L
```

Figure 4B

Pre-RIDβ (14.5K)

```
                    10                  20
M K F T V T F L L I I C T L S A F C S P T S K P Q R H I
    signal sequence

 30                 40                  50
S C R F T R I W N I P S C Y N E K S D L S E A W L Y A I

     60                 70                  80
I S V M V F C S T I L A L A I Y P Y L D I G W N A I D A
    Transmembrane

          90                 100                 110
M N H P T F P A P A M L P L Q Q V V A G G F V P A N Q P

               120                 130
R P P S P T P T E I S Y F N L T G G D D
      *           *
```

Figure 4C

Mature-RIDβ (14.5K)

```
                    10                  20
S P T S K P Q R H I S C R F T R I W N I P S C Y N E K S

 30                 40                  50
D L S E A W L Y A I I S V M V F C S T I L A L A I Y P Y
                   Transmembrane

     60                 70                  80
L D I G W N A I D A M N H P T F P A P A M L P L Q Q V V

          90                 100                 110
A G G F V P A N Q P R P P S P T P T E I S Y F N L T G G
                           *                   *

D D
```

Figure 4D

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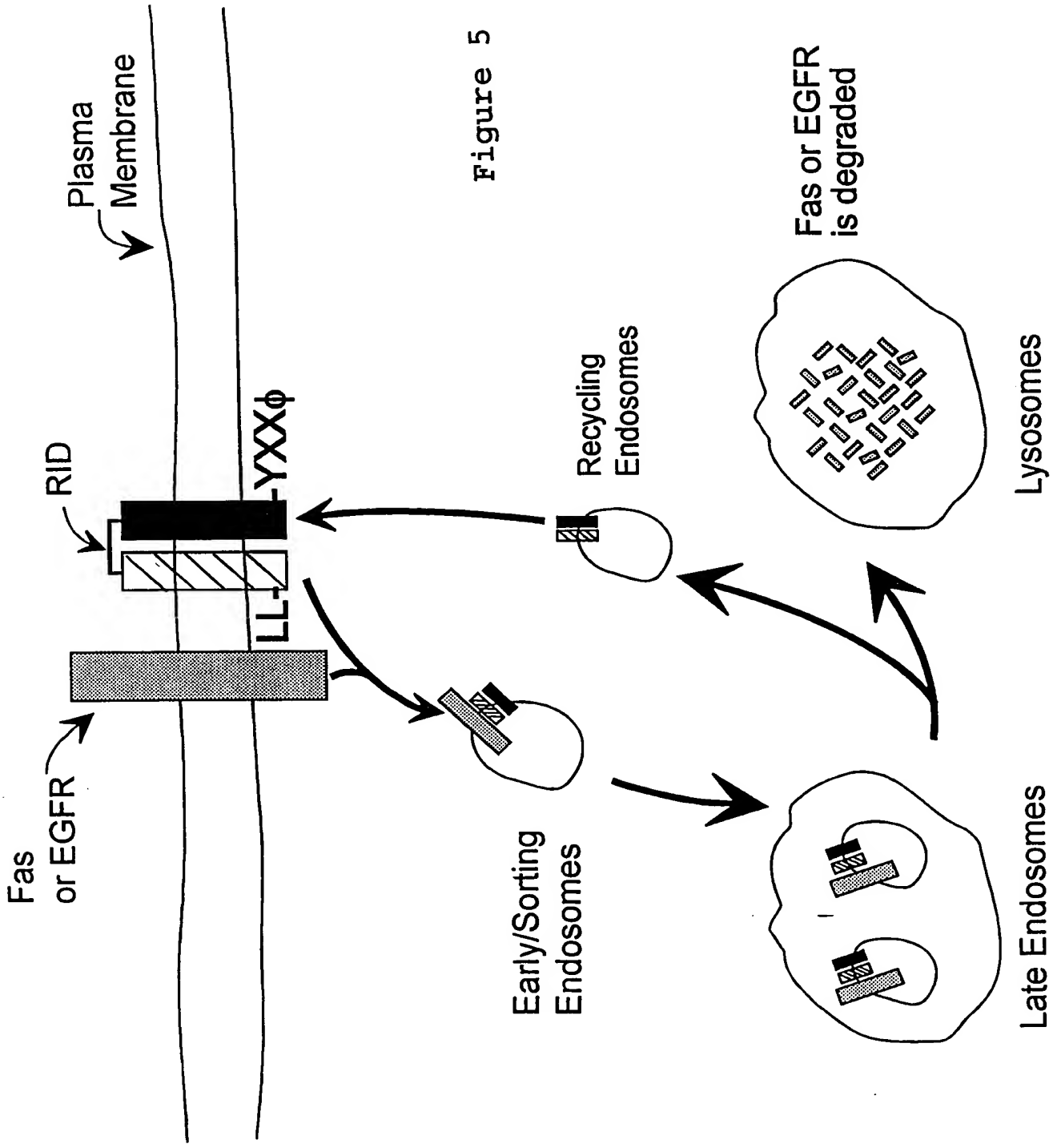

Plasma Membrane
RID
-YXXϕ
LL-
Fas or EGFR
Recycling Endosomes
Early/Sorting Endosomes
Late Endosomes
Lysosomes
Fas or EGFR is degraded

Figure 5

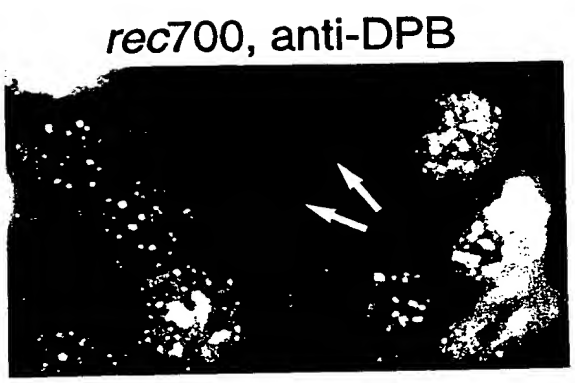


Figure 6A

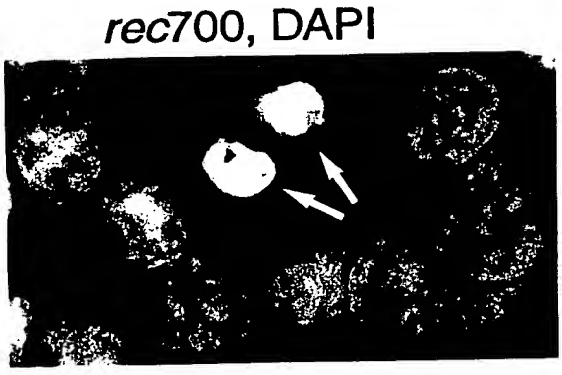


Figure 6B

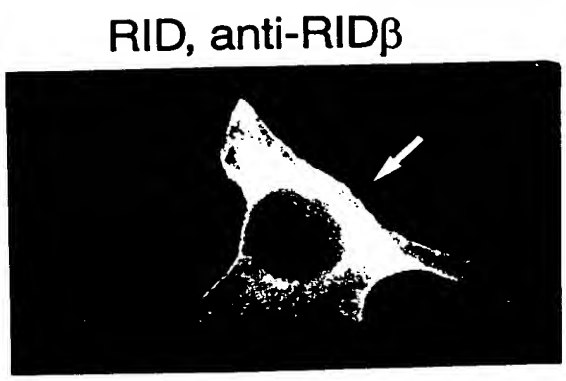


Figure 6C

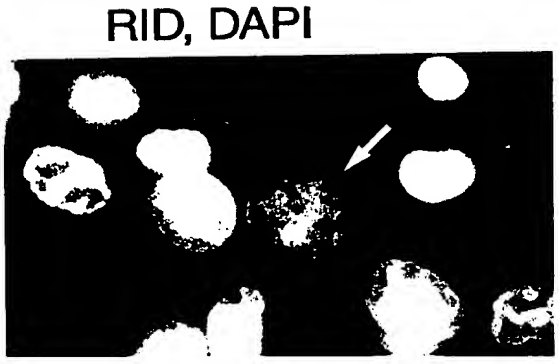


Figure 6D

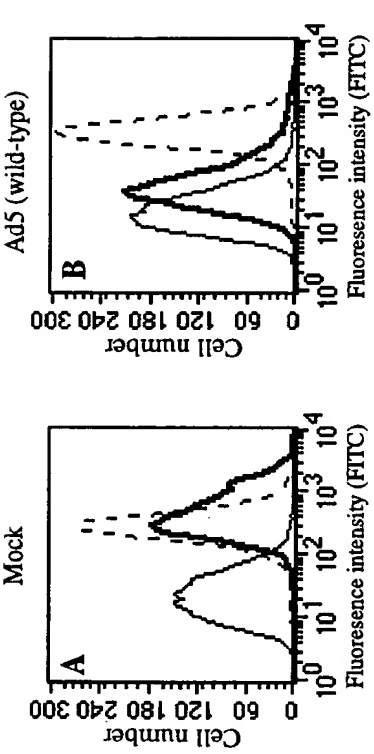


Figure 7A

Figure 7B

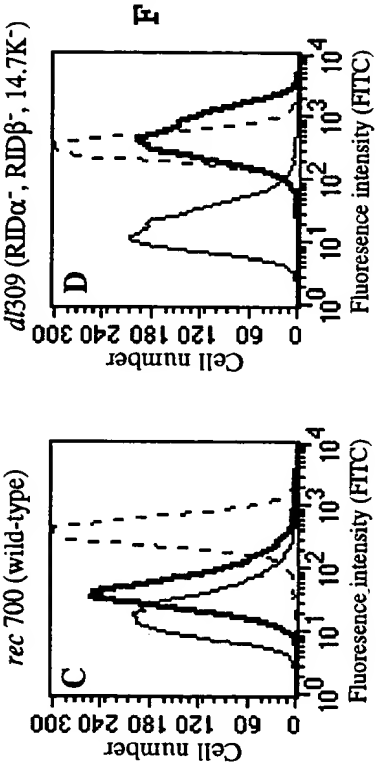


Figure 7C

Figure 7D

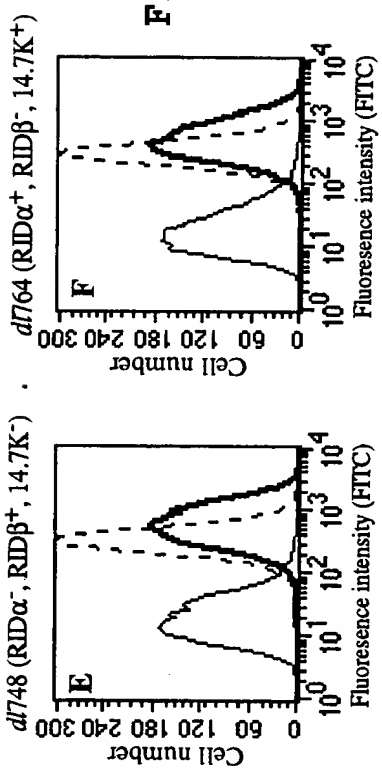


Figure 7E

Figure 7F

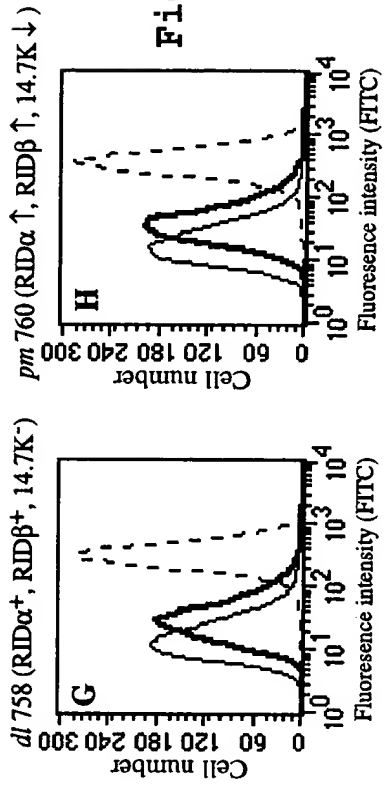


Figure 7G

Figure 7H

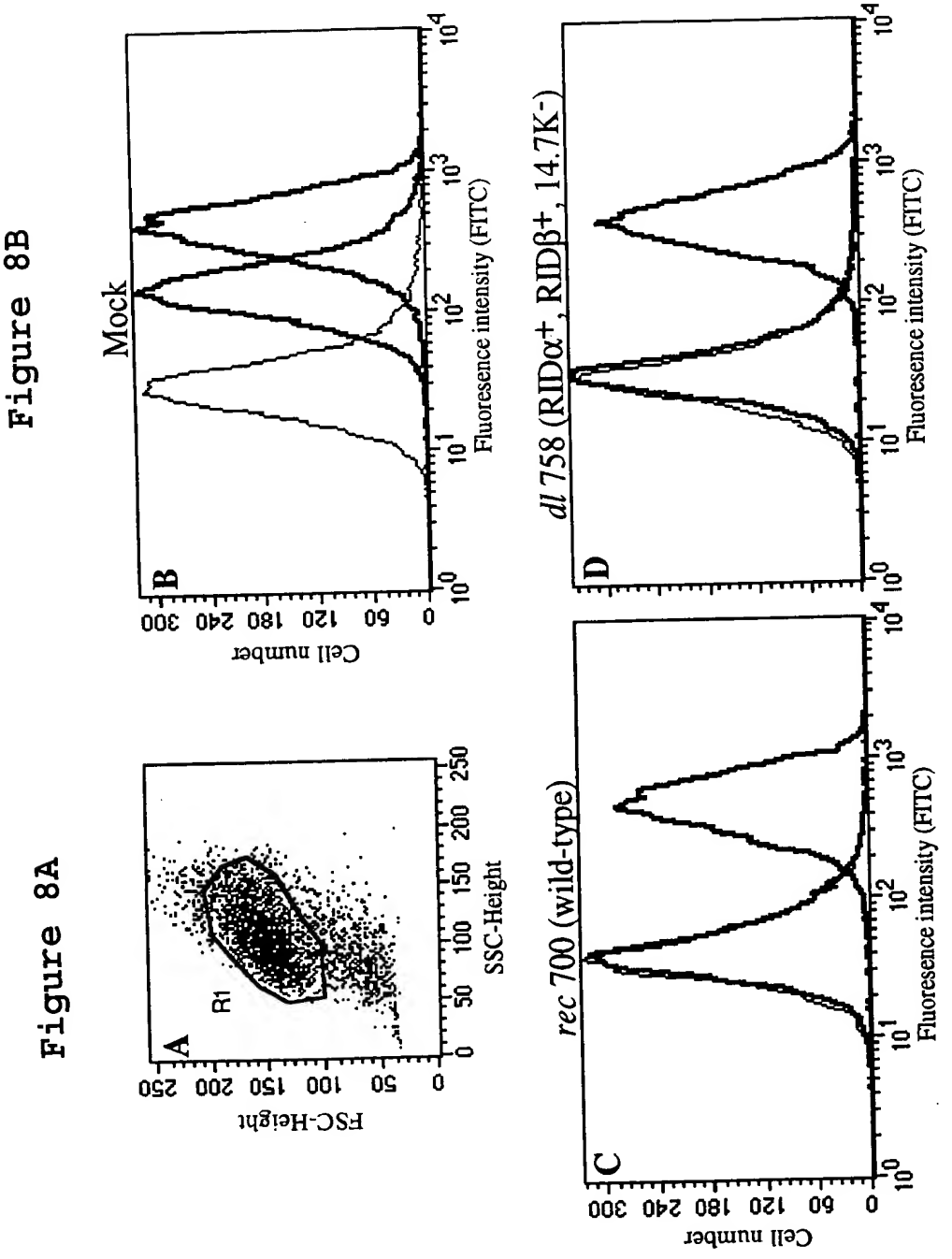


Figure 8A

Figure 8B

Figure 8C

Figure 8D

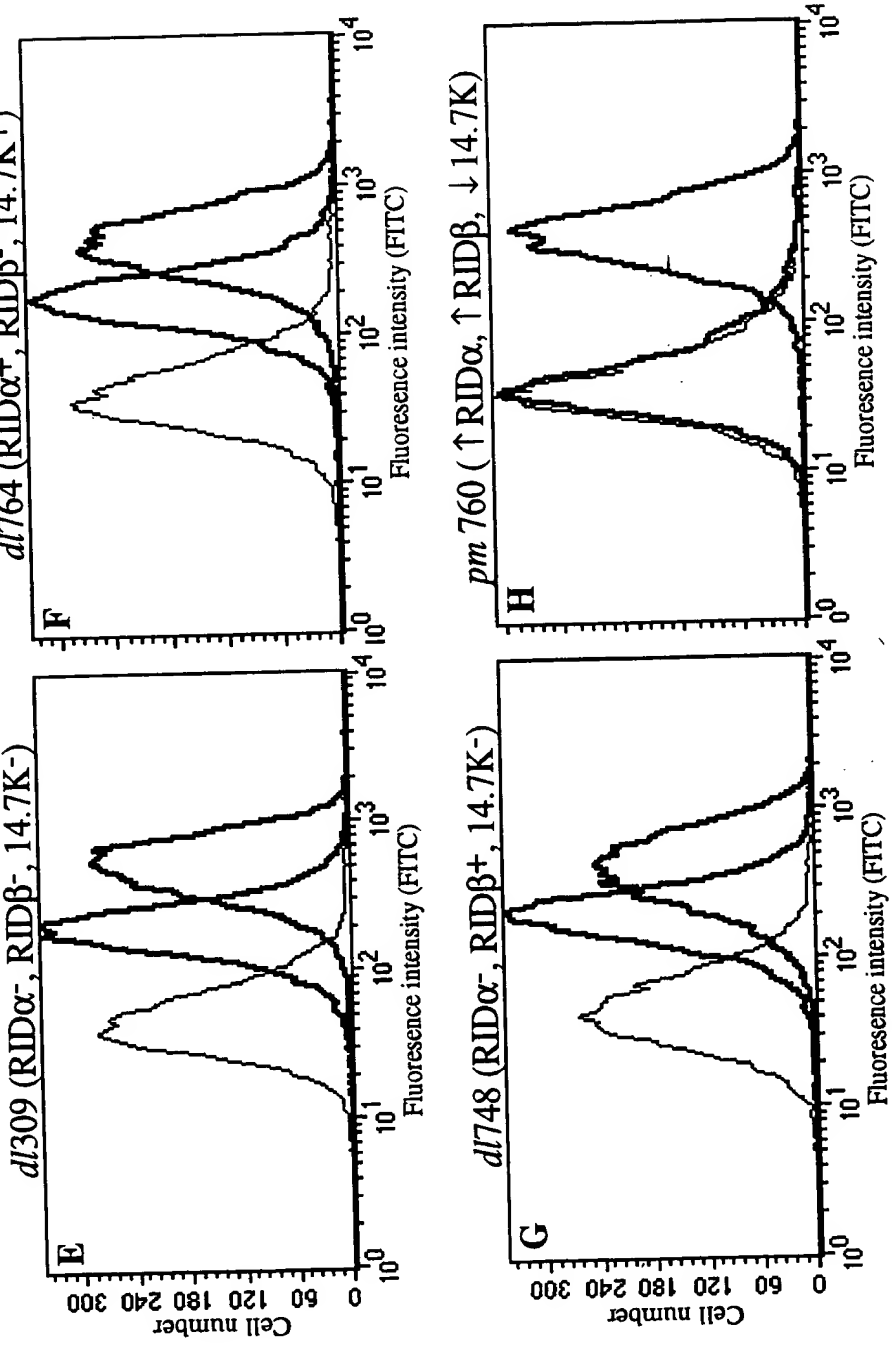


Figure 8E

Figure 8F

Figure 8G

Figure 8H

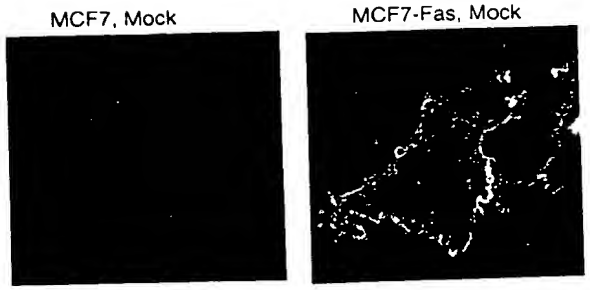


Figure 9A

Figure 9B

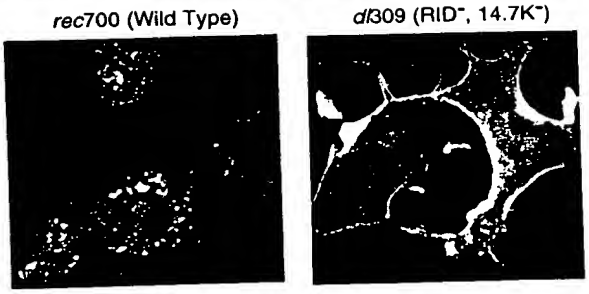


Figure 9C

Figure 9D

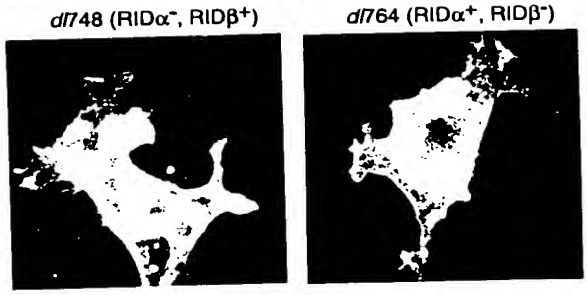


Figure 9E

Figure 9F

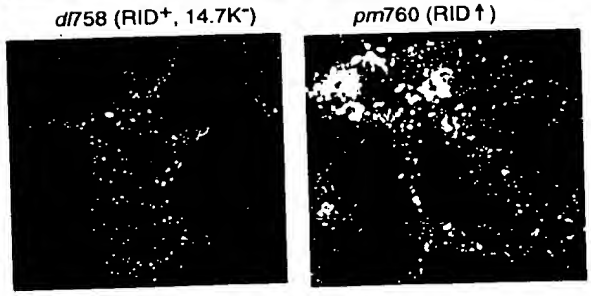


Figure 9G

Figure 9H

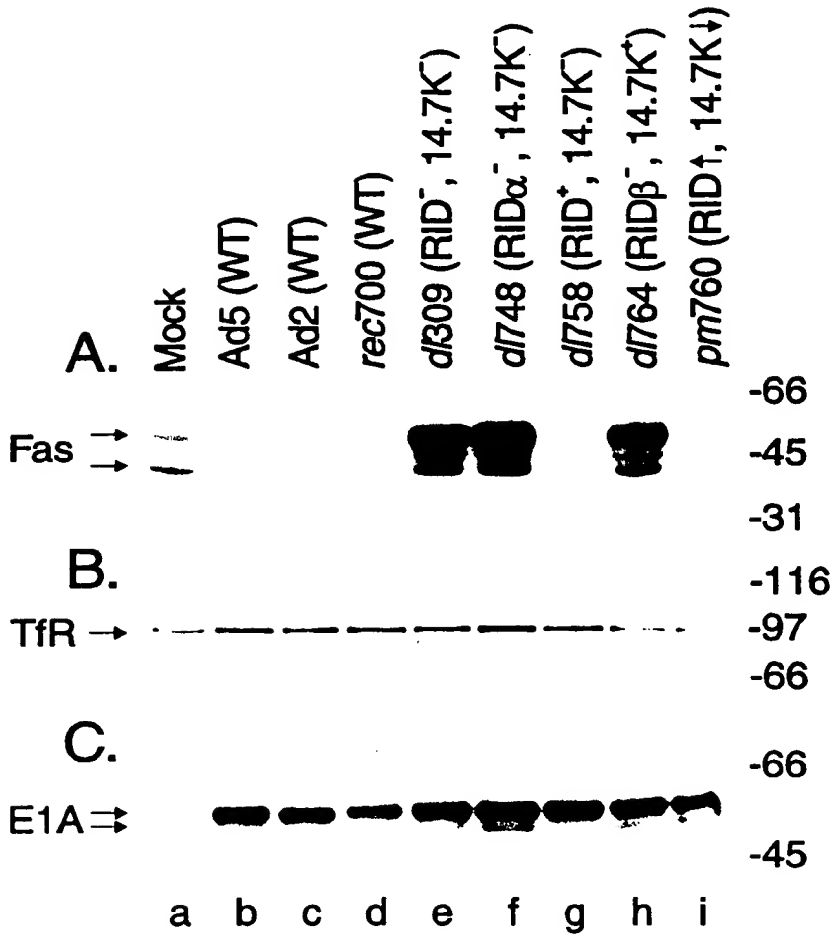

A.
Mock
Ad5 (WT)
Ad2 (WT)
rec700 (WT)
dl309 (RID⁻, 14.7K⁺)
dl748 (RIDα⁻, 14.7K⁺)
dl758 (RID⁺, 14.7K⁺)
dl764 (RIDβ⁻, 14.7K⁺)
pm760 (RID↑, 14.7K↓)
Fas
-66
-45
-31
B.
TfR
-116
-97
-66
C.
E1A
-66
-45
a b c d e f g h i

Figure 10

Figure 11B

Figure 11D

Figure 11A

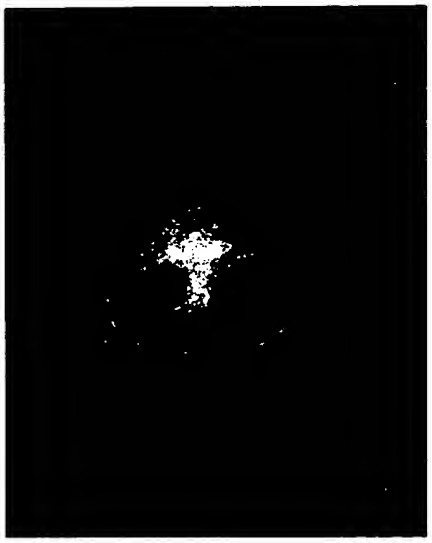


Figure 11C

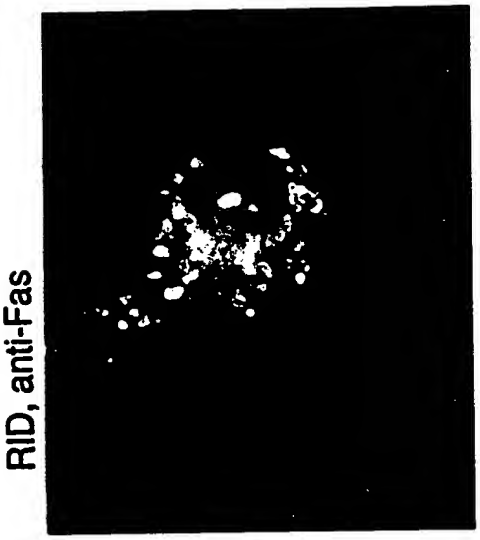


Figure 11F

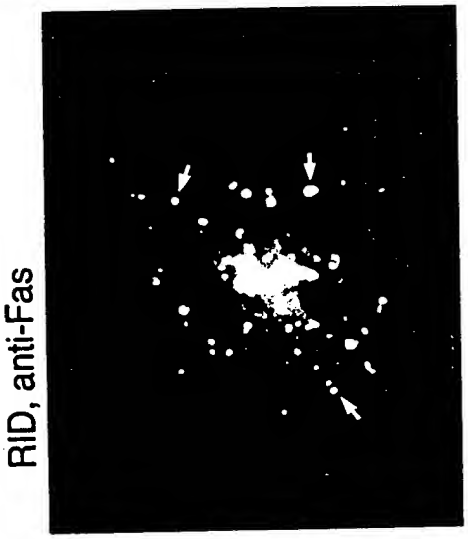


Figure 11H

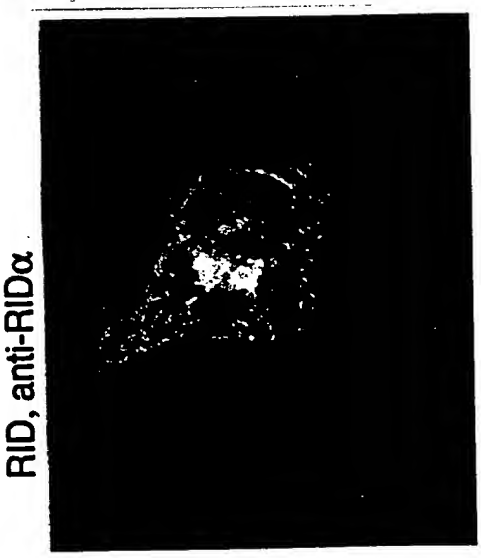


Figure 11E

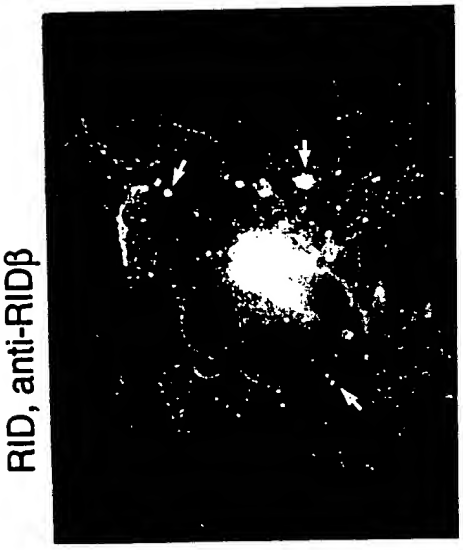


Figure 11G

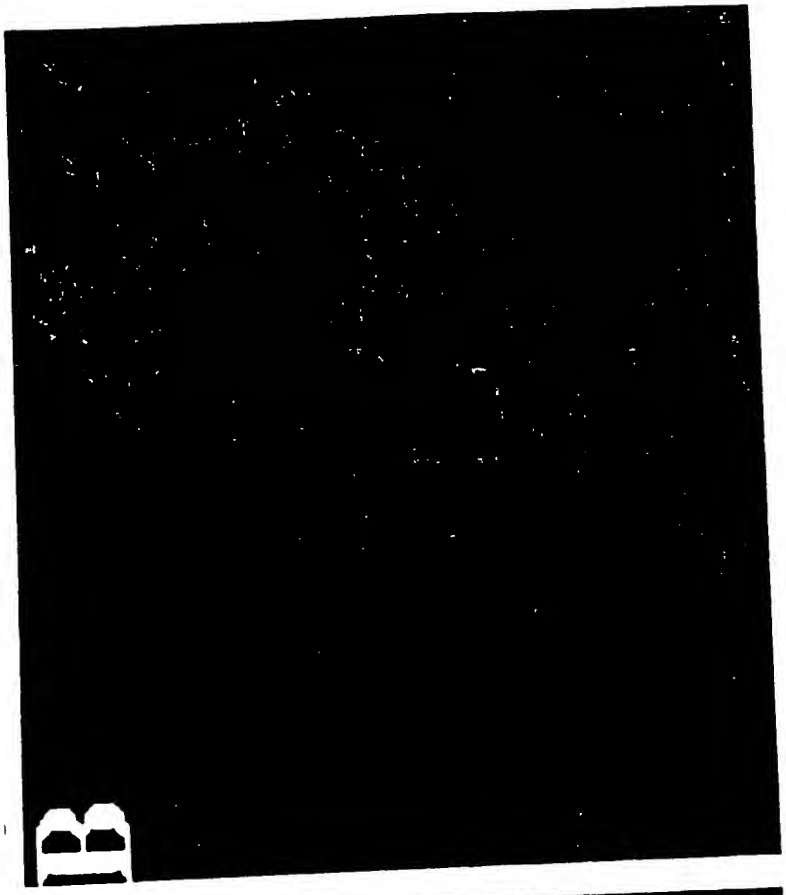


Figure 12B

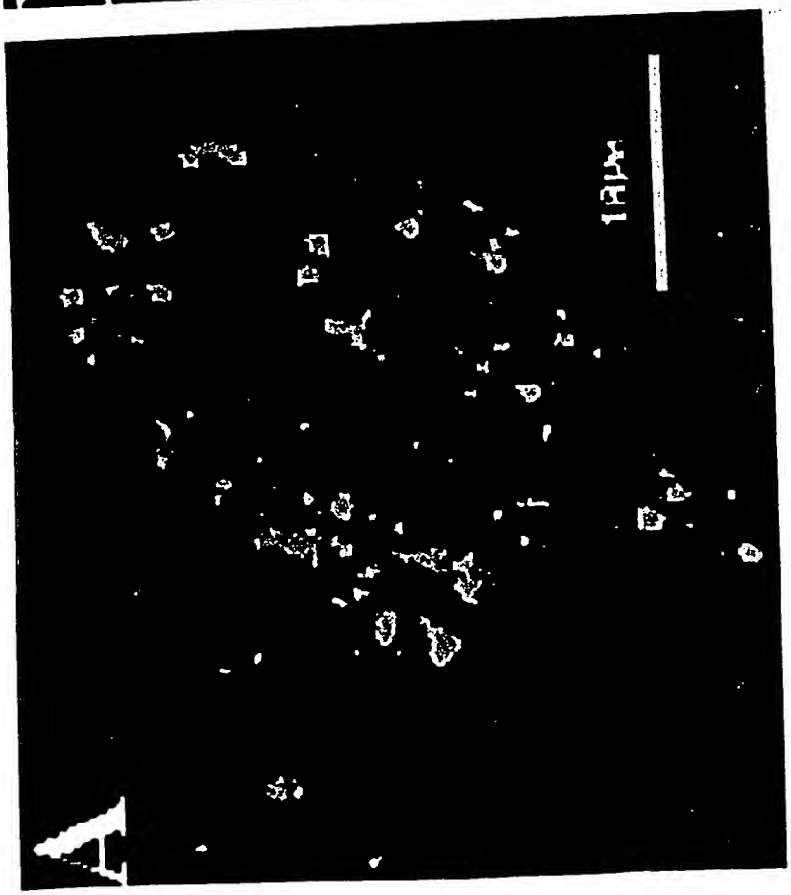


Figure 12A

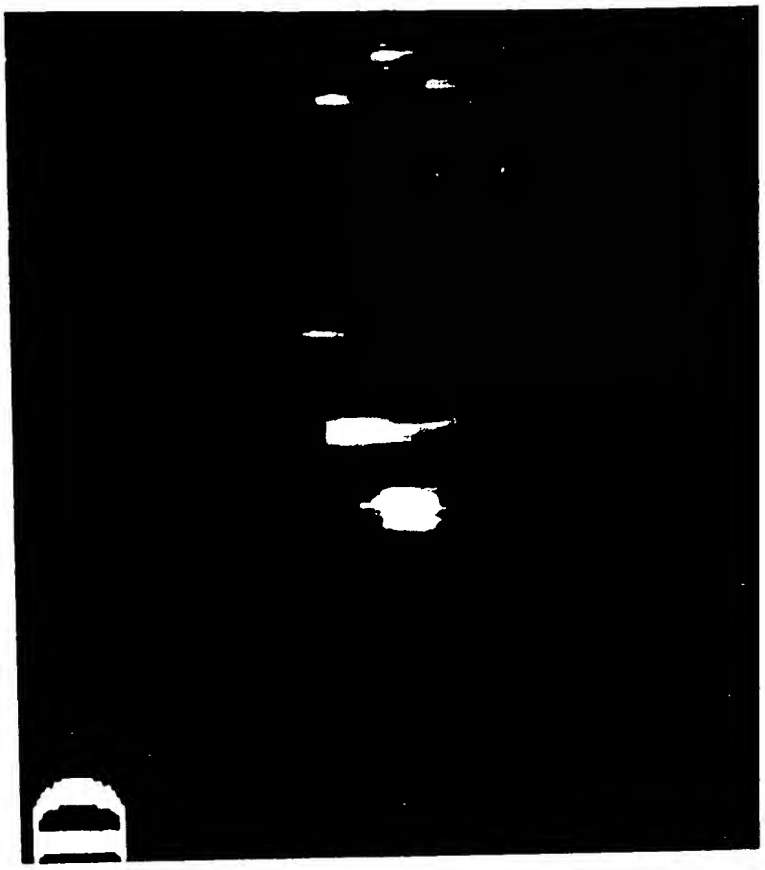


Figure 12D

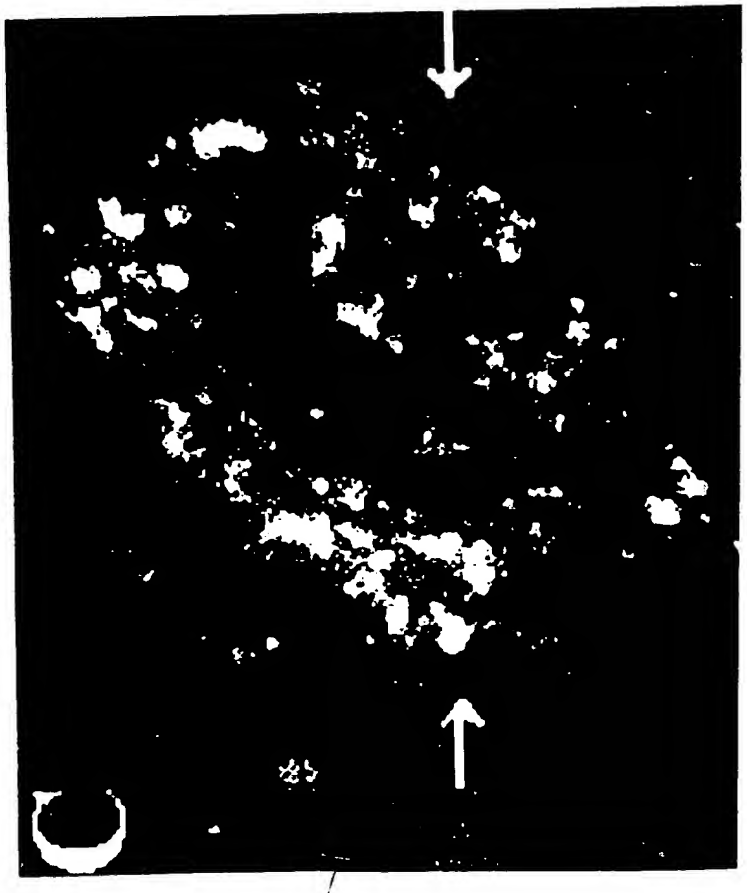


Figure 12C

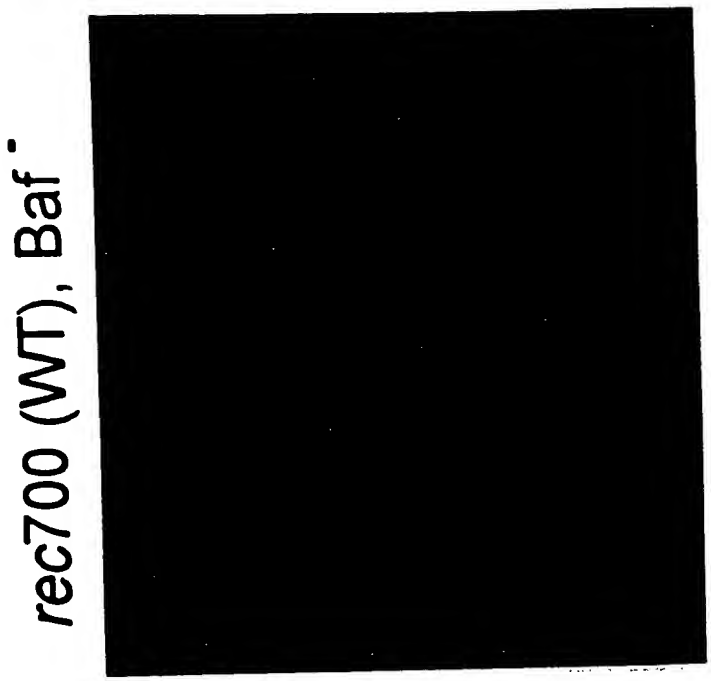


Figure 13B

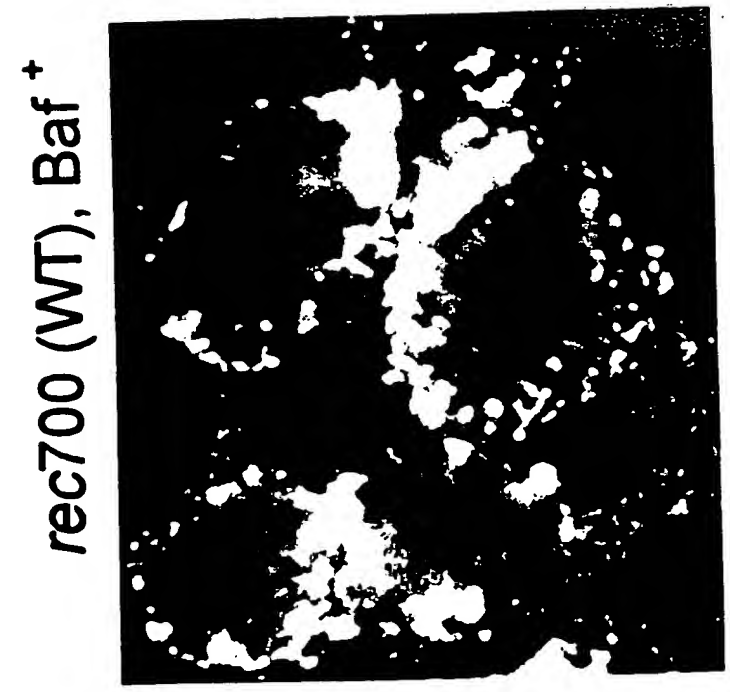


Figure 13A

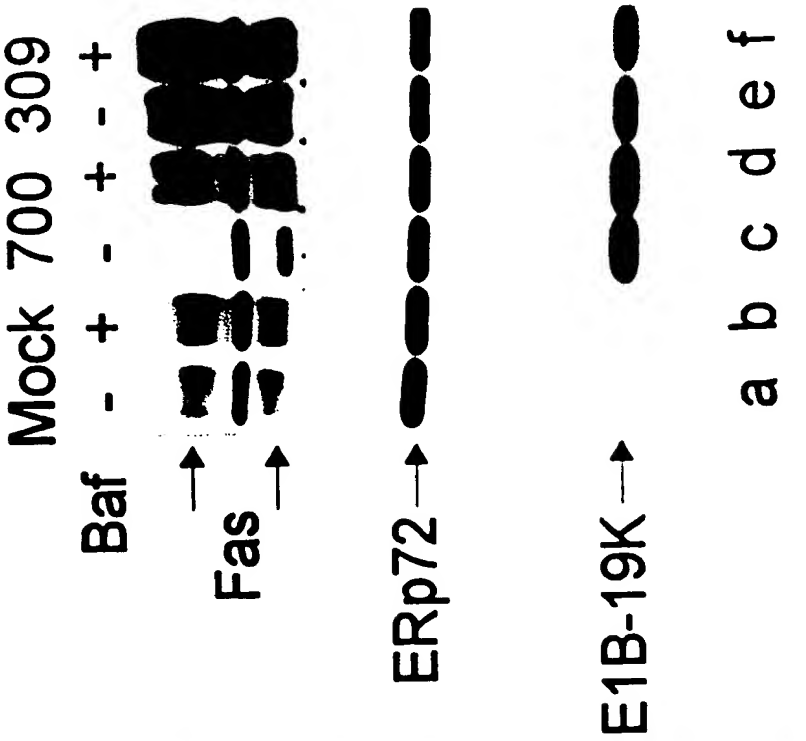


Figure 13D

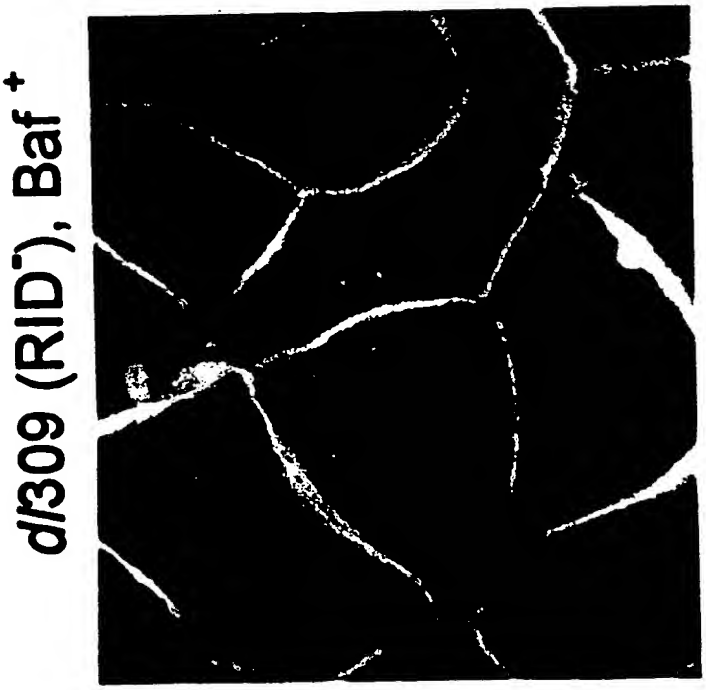


Figure 13C

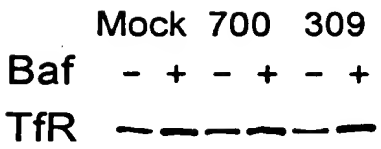


Figure 13E

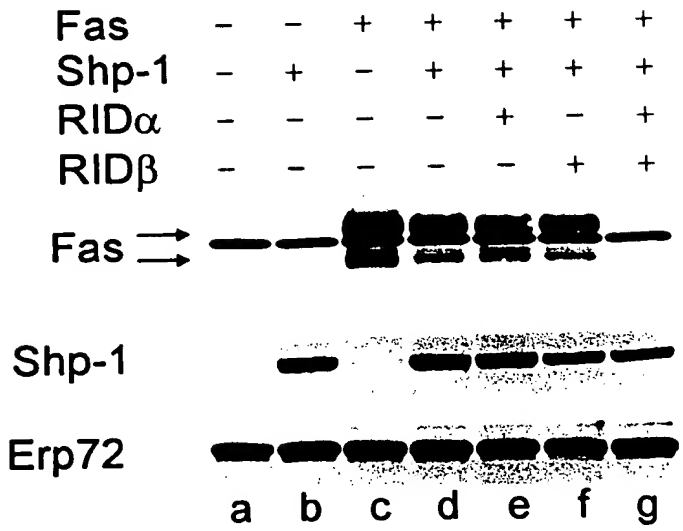


Figure 14

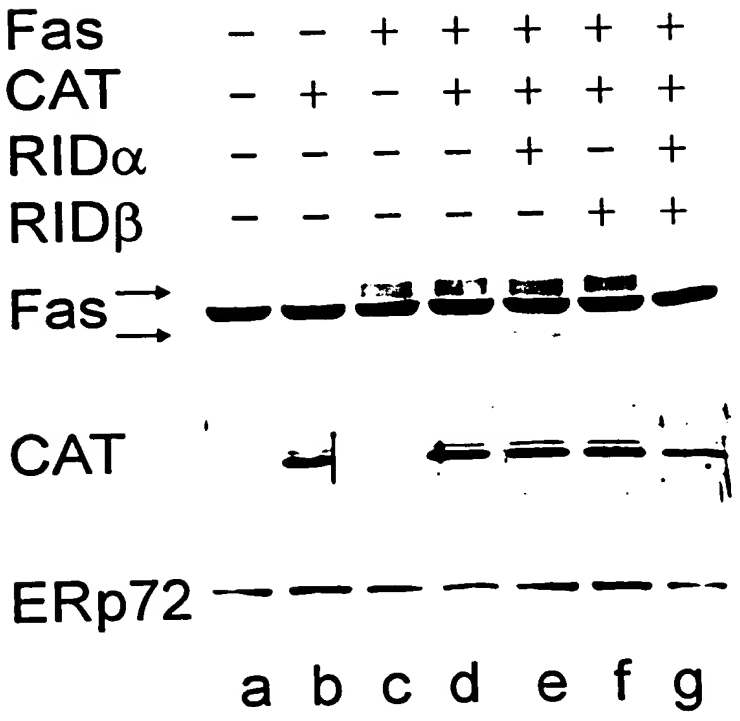


Figure 15

Figure 16A

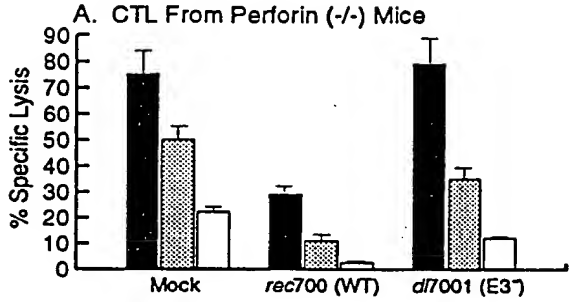


Figure 16B

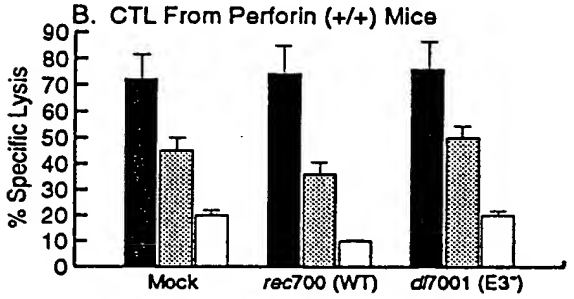
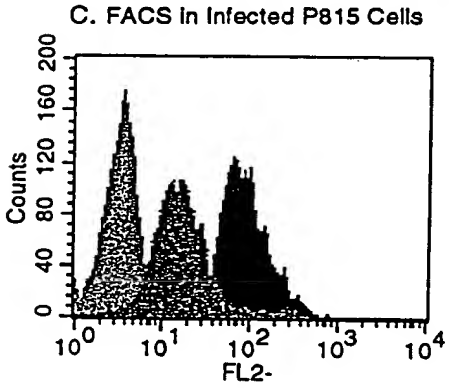


Figure 16C



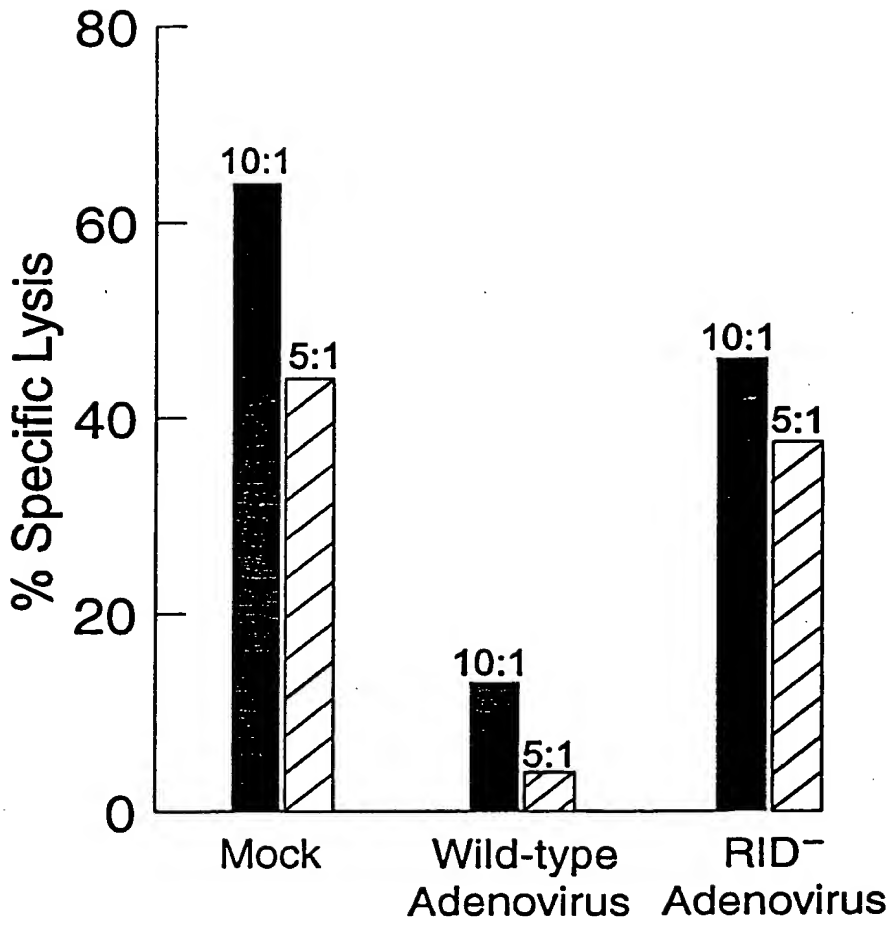

80
60
40
20
0
% Specific Lysis
10:1
5:1
10:1
5:1
10:1
5:1
Mock
Wild-type Adenovirus
RID⁻ Adenovirus

Figure 17

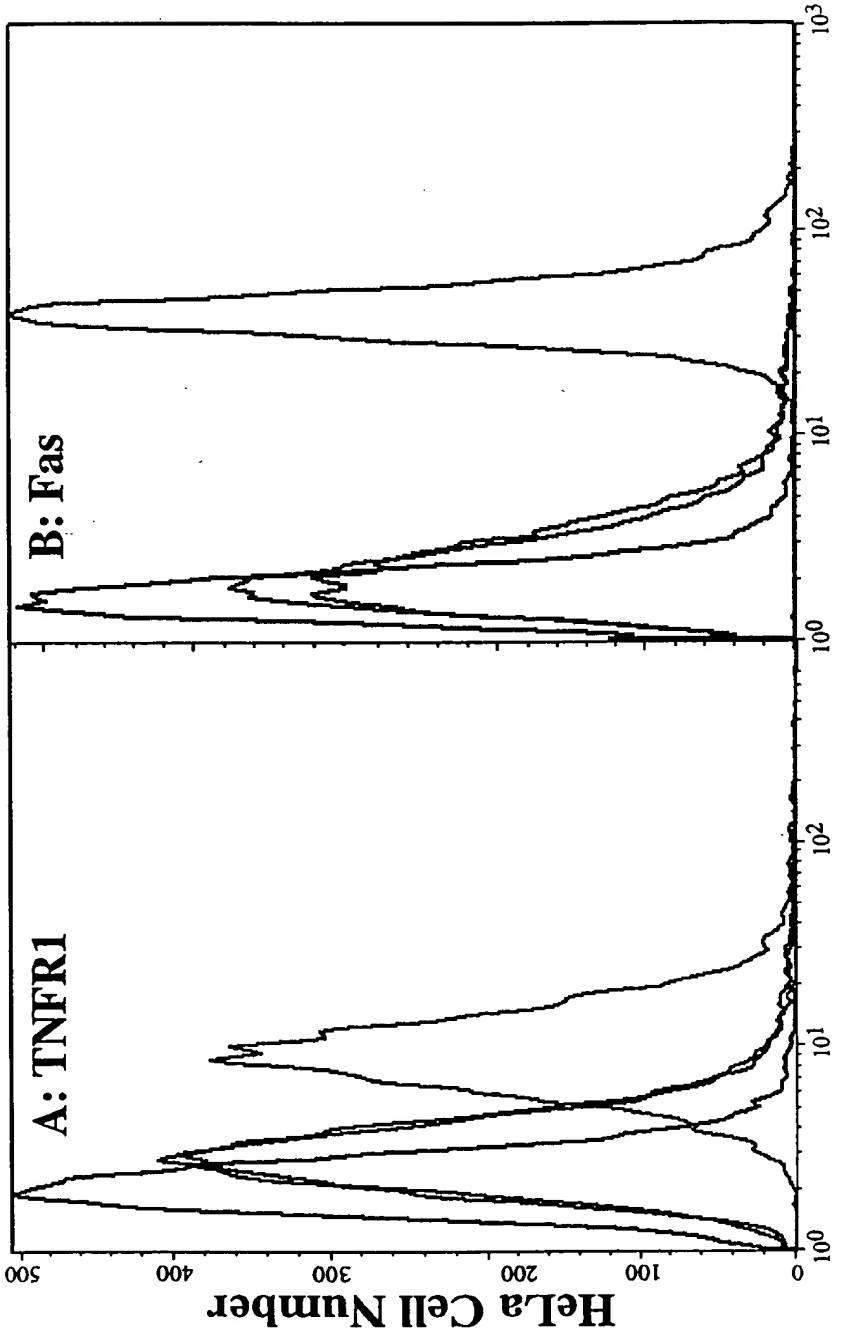
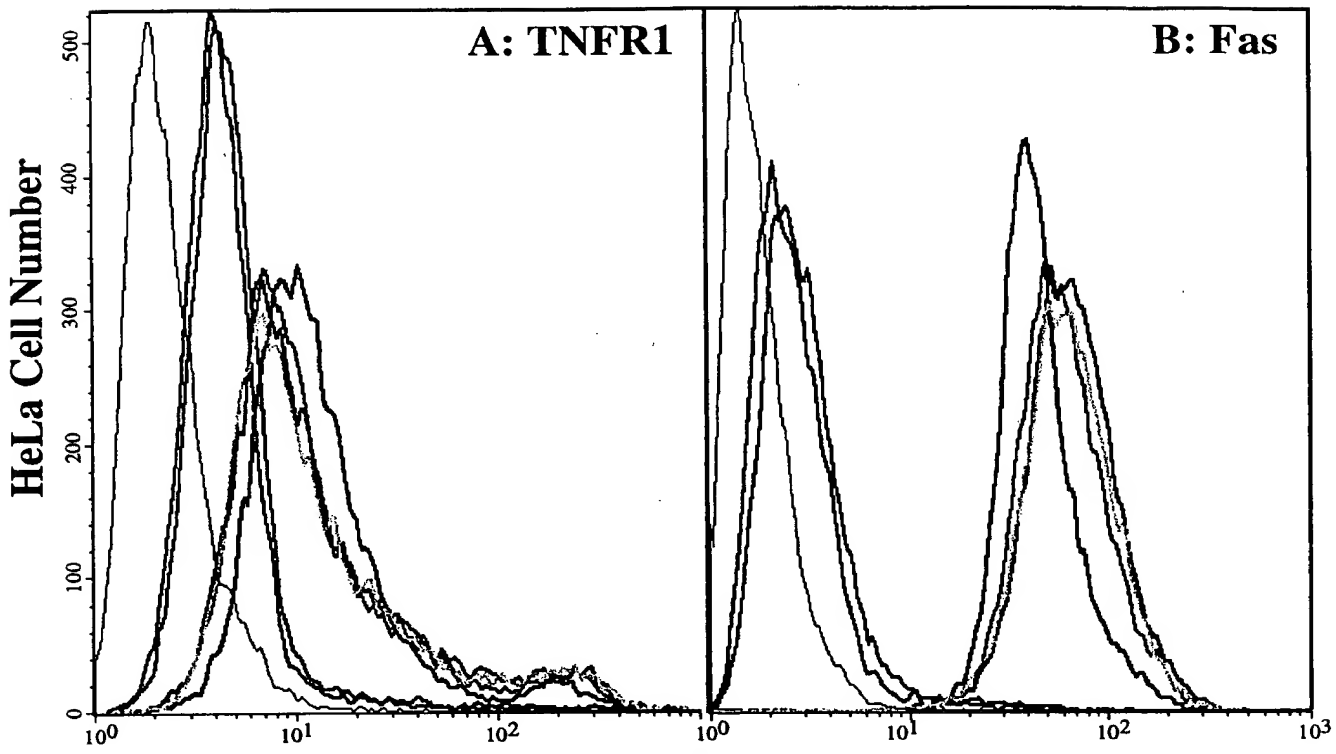


Figure 18A

Figure 18B

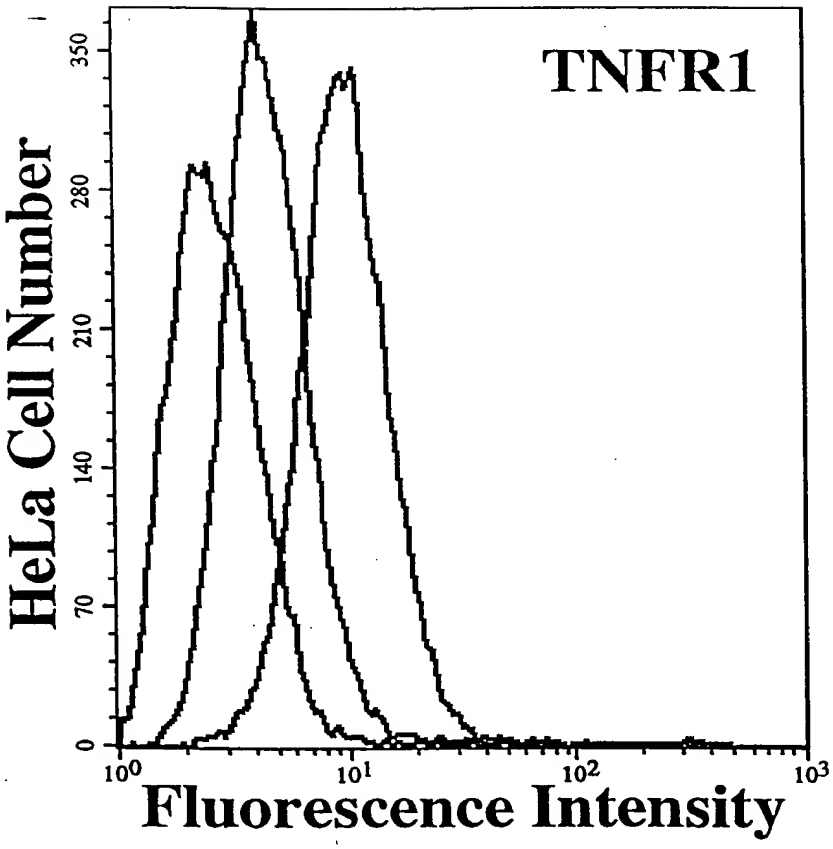
Figure 19A

Figure 19B



Mock - 92%
***rec*700 (Wild type) - 29%**
***dl*753 (RIDα-) - 85%**
***dl*764 (RIDβ-) - 84%**
***dl*712 (↑RID)- 24%**
***dl*309 (RID-) - 84%**
Unstained Control - 2%

Mock - 100%
***rec*700 (Wild type) - 4%**
***dl*753 (RIDα-) - 100%**
***dl*764 (RIDβ-) - 100%**
***dl*712 (↑RID) - 2%**
***dl*309 (RID-) - 100%**
Unstained Control - 1%



Mock - 93%
231-10 ($E3^+$ vector) 24 hr. p.i. - 35%
231-10 ($E3^+$ vector) 48hr. p.i. - 11%

Figure 20

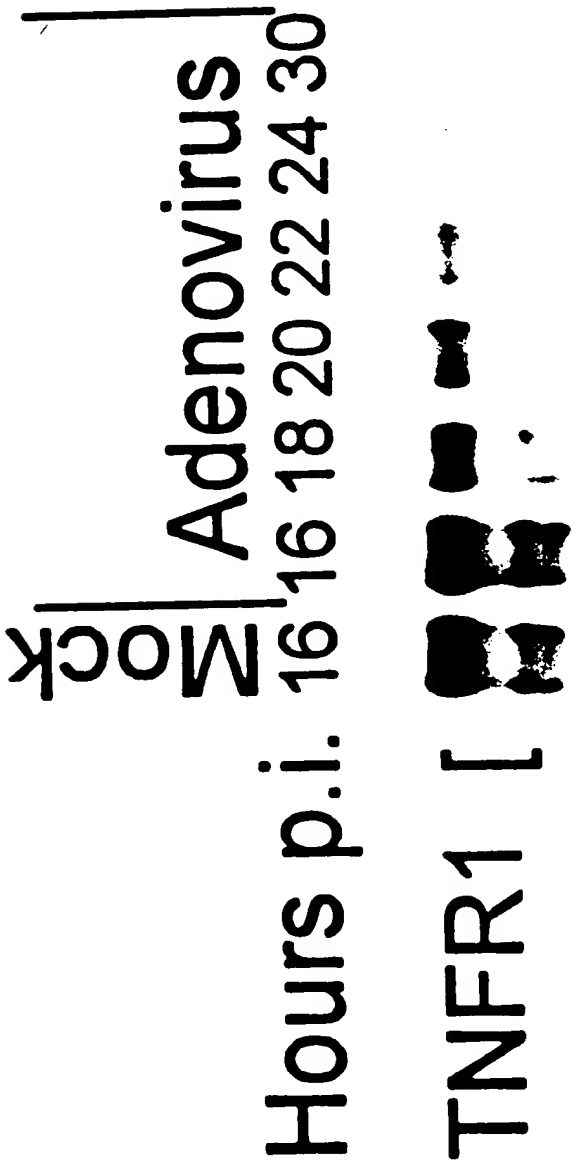


Figure 21

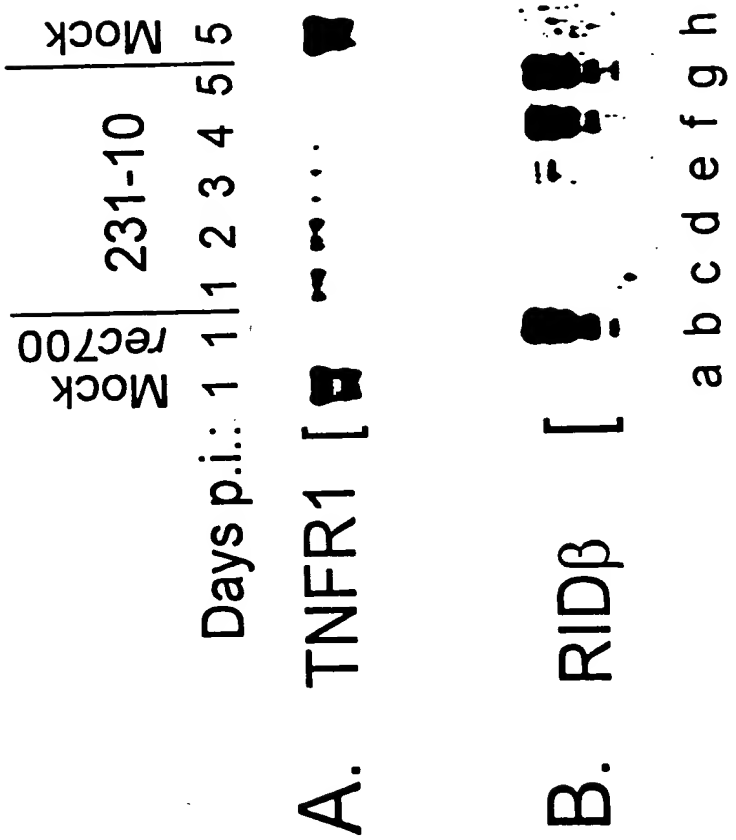

Mock
231-10
rec700
Mock
1 2 3 4 5
1 1
Days p.i.:
A. TNFR1
B. RIDβ
a b c d e f g h

Figure 22

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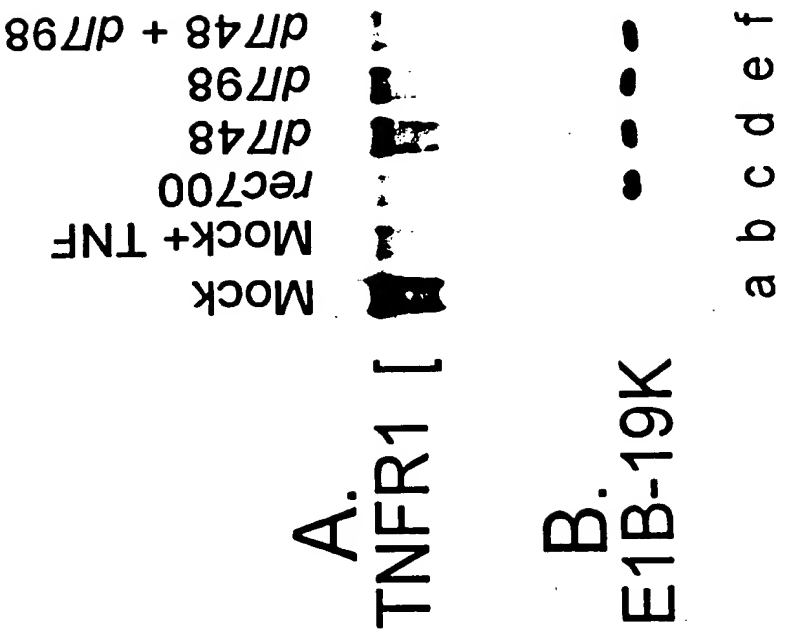

Figure 23

Figure 24

Figure 25

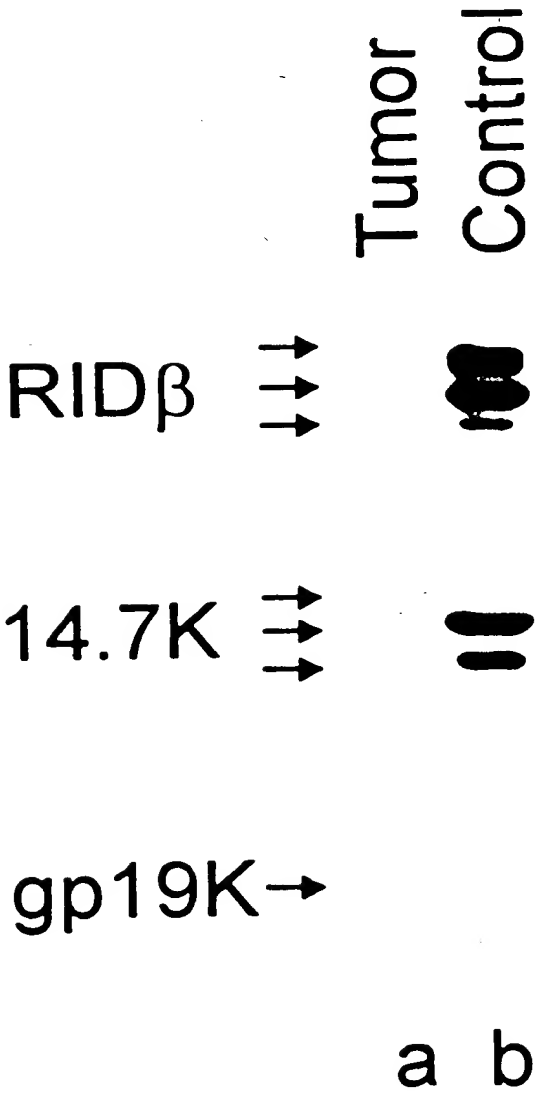

Figure 26

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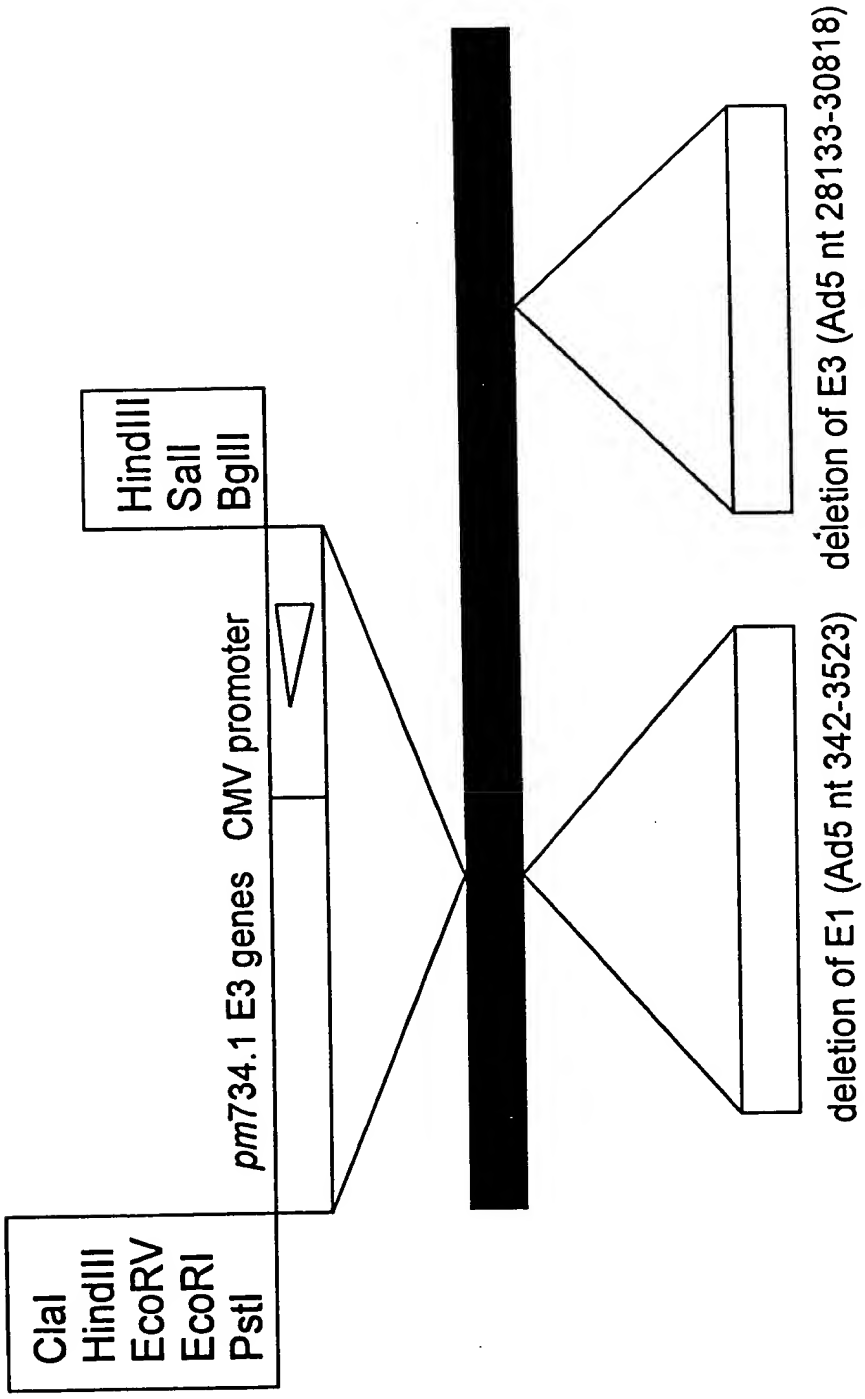

Figure 27

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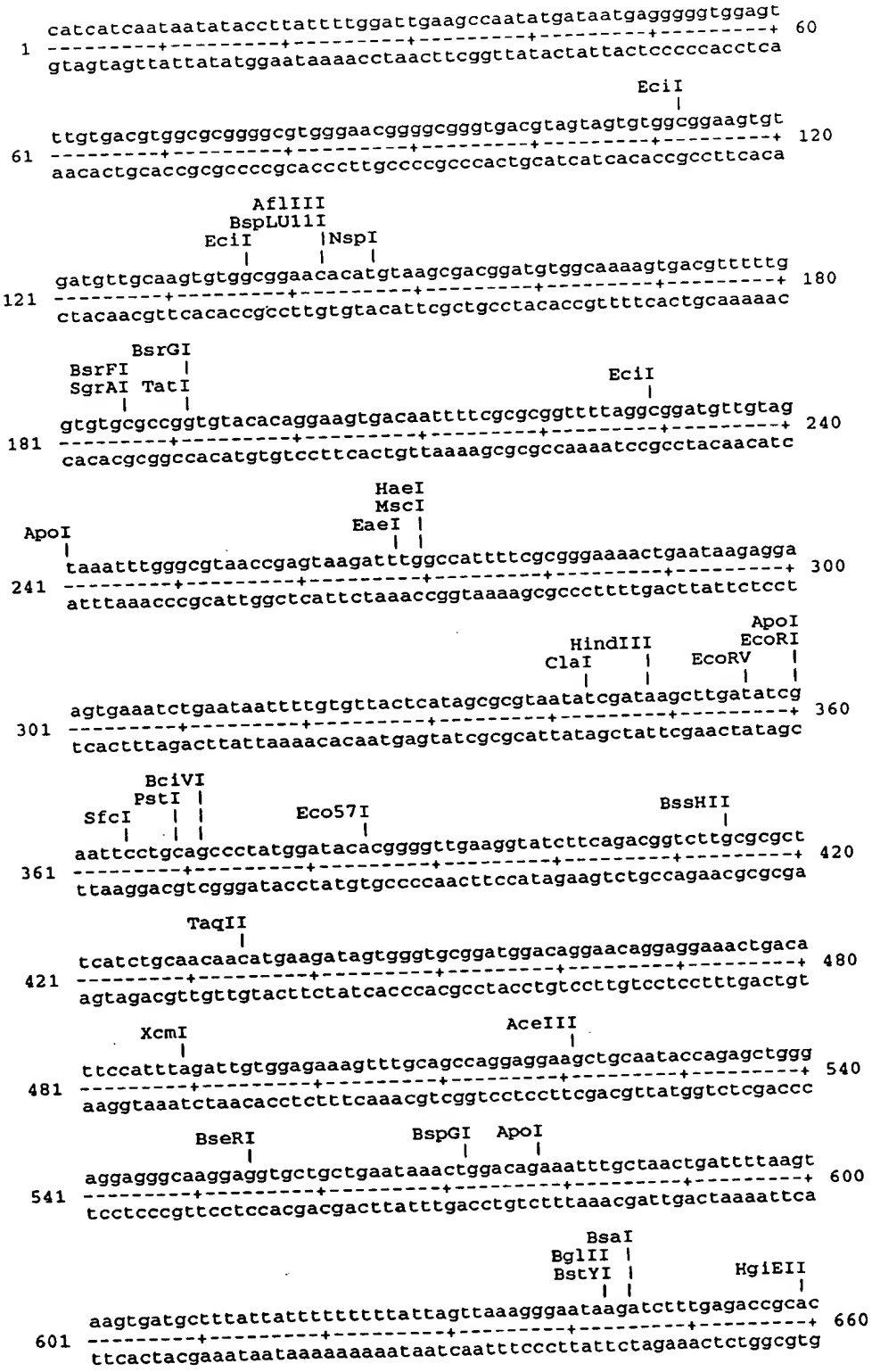

Figure 28A

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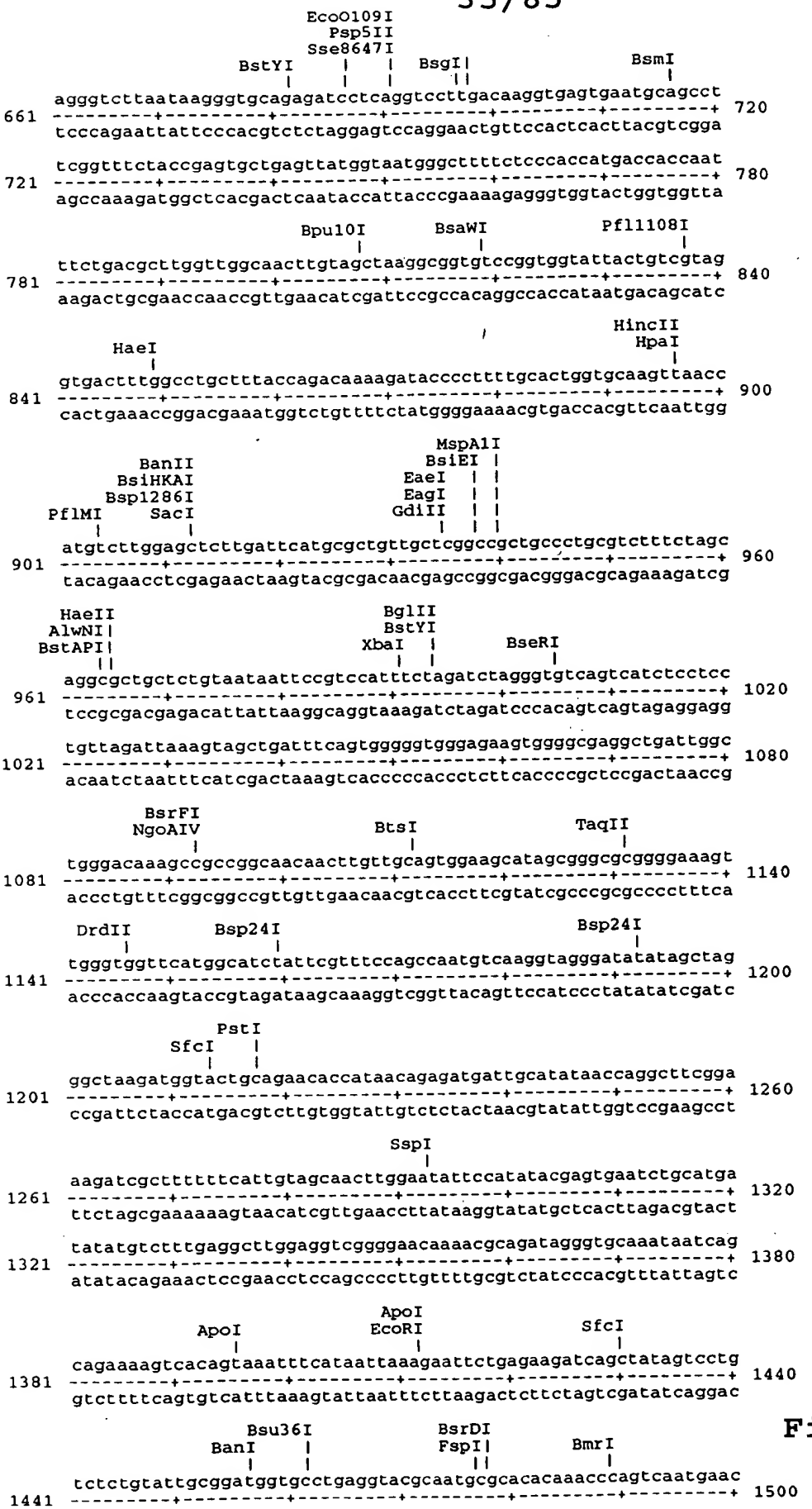
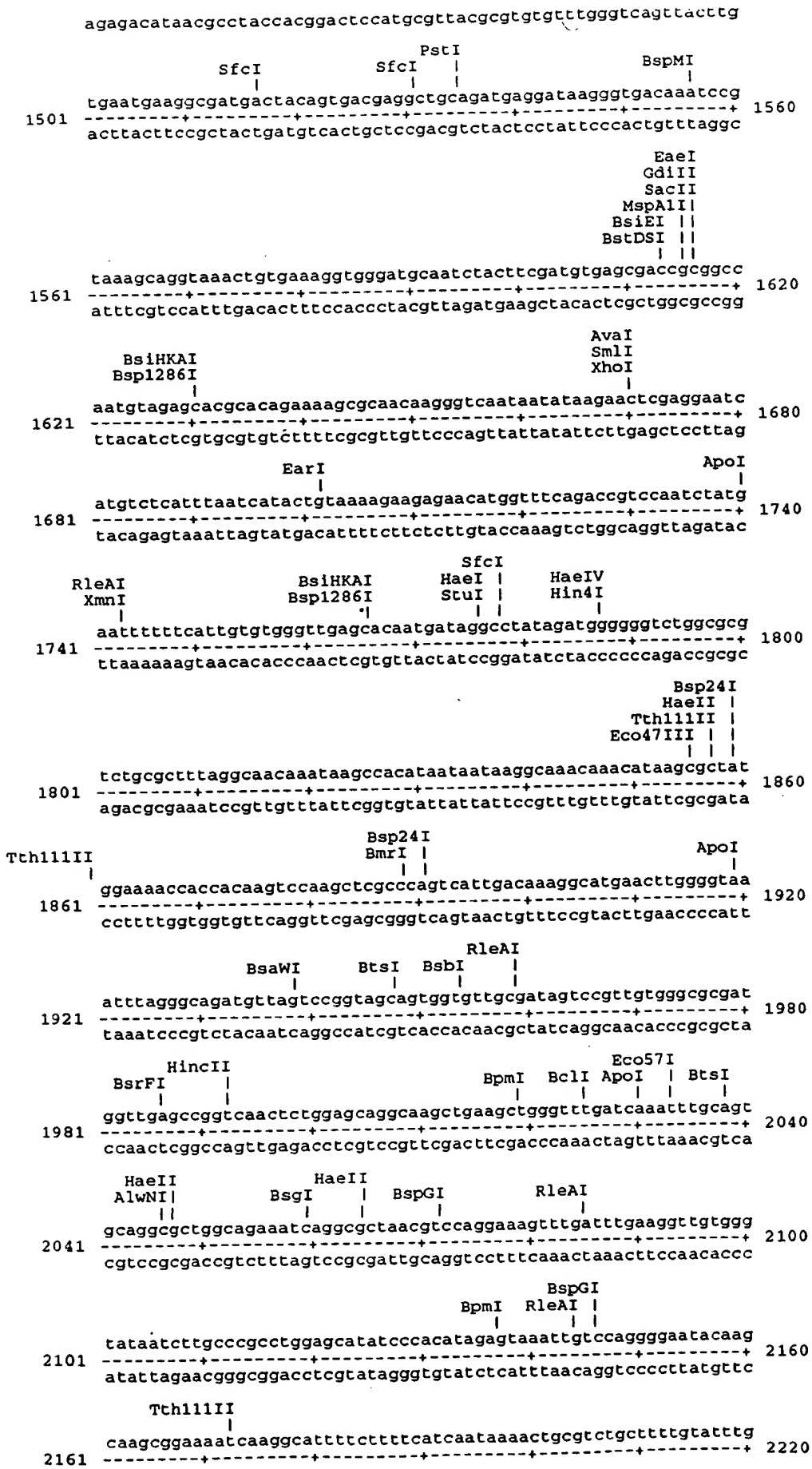


Figure 28B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XhoI
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StuI
HaeIV
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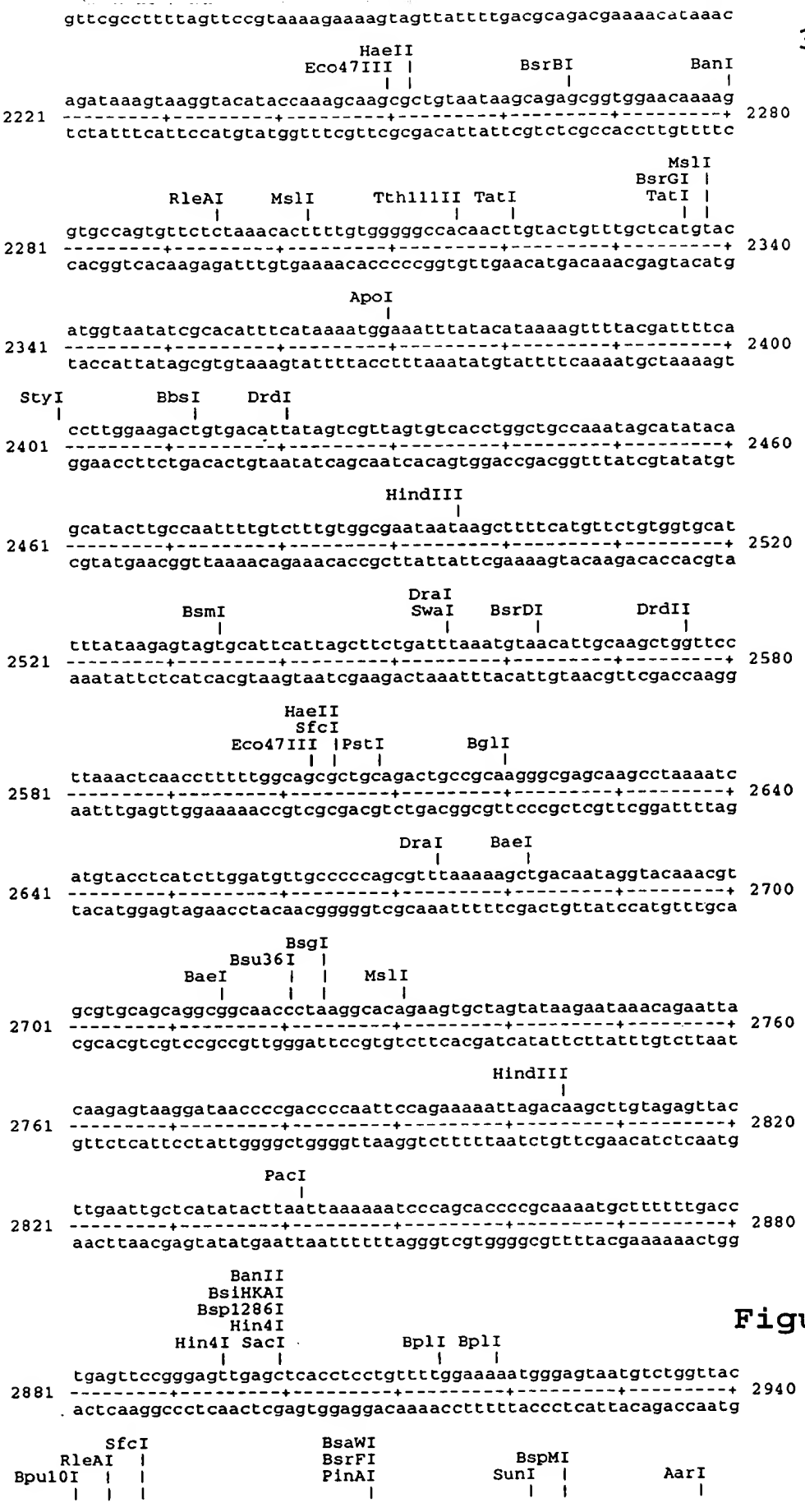
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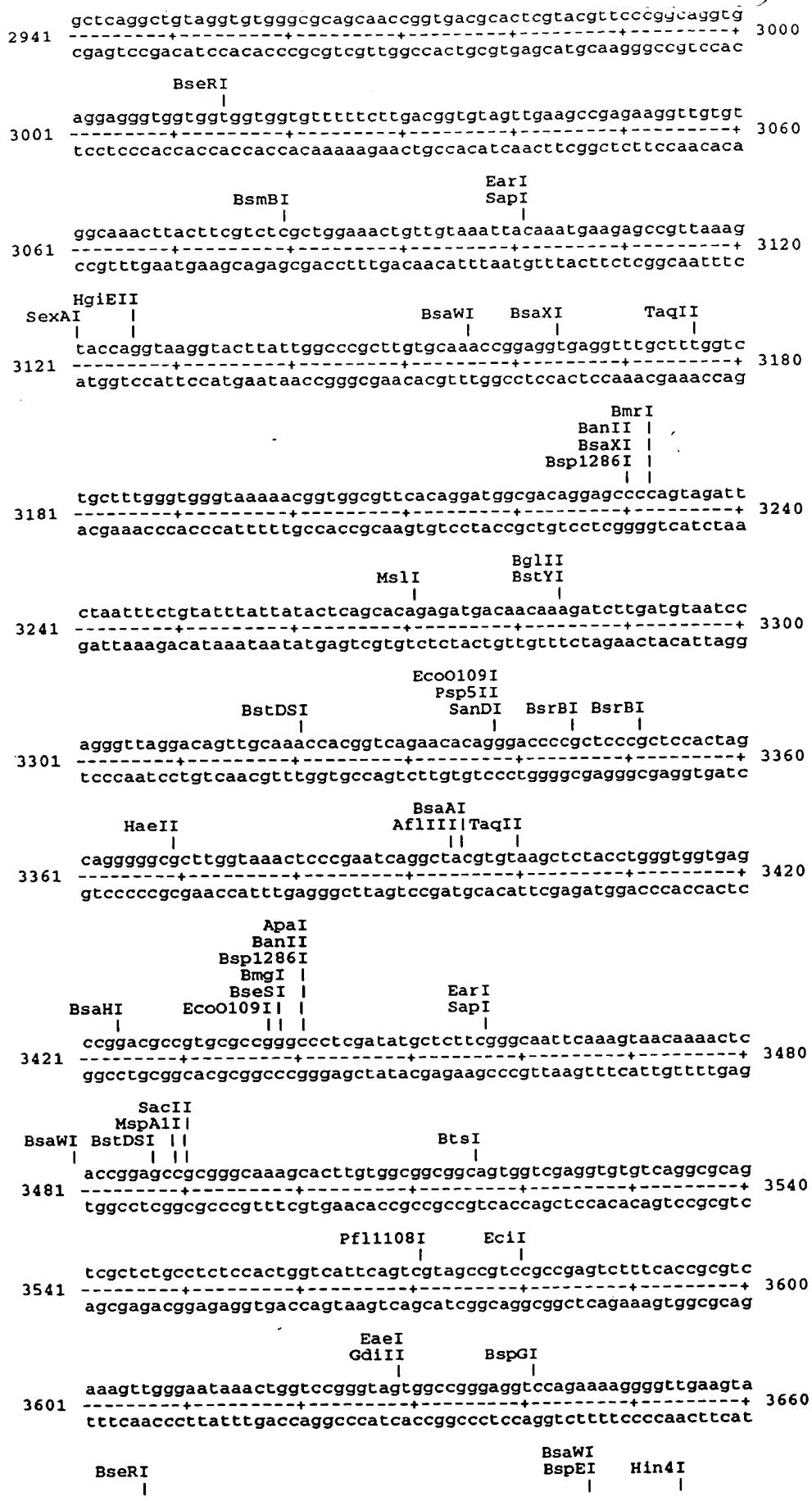
Figure 28D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BsaHI EcoO109I EarI
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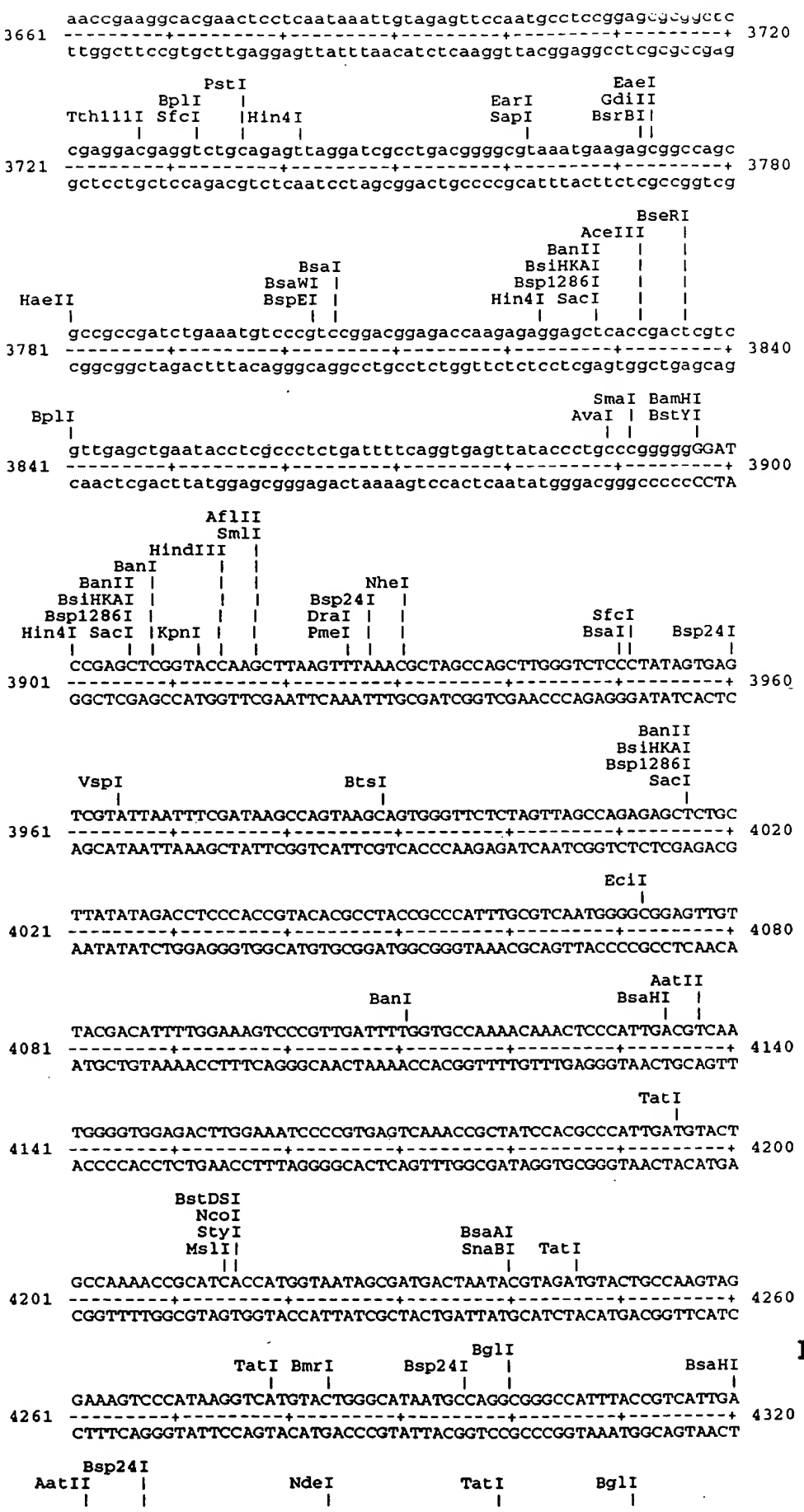
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BsaI
BsaWI
BspEI
HaeII
BplI
SmaI BamHI
AvaI BstYI
AflII
SmlI
HindIII
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Hin4I SacI
KpnI
NheI
Bsp24I
DraI
PmeI
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BsaI
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SacI
VspI
BtsI
EciI
AatII
BsaHI
BanI
TatI
BstDSI
NcoI
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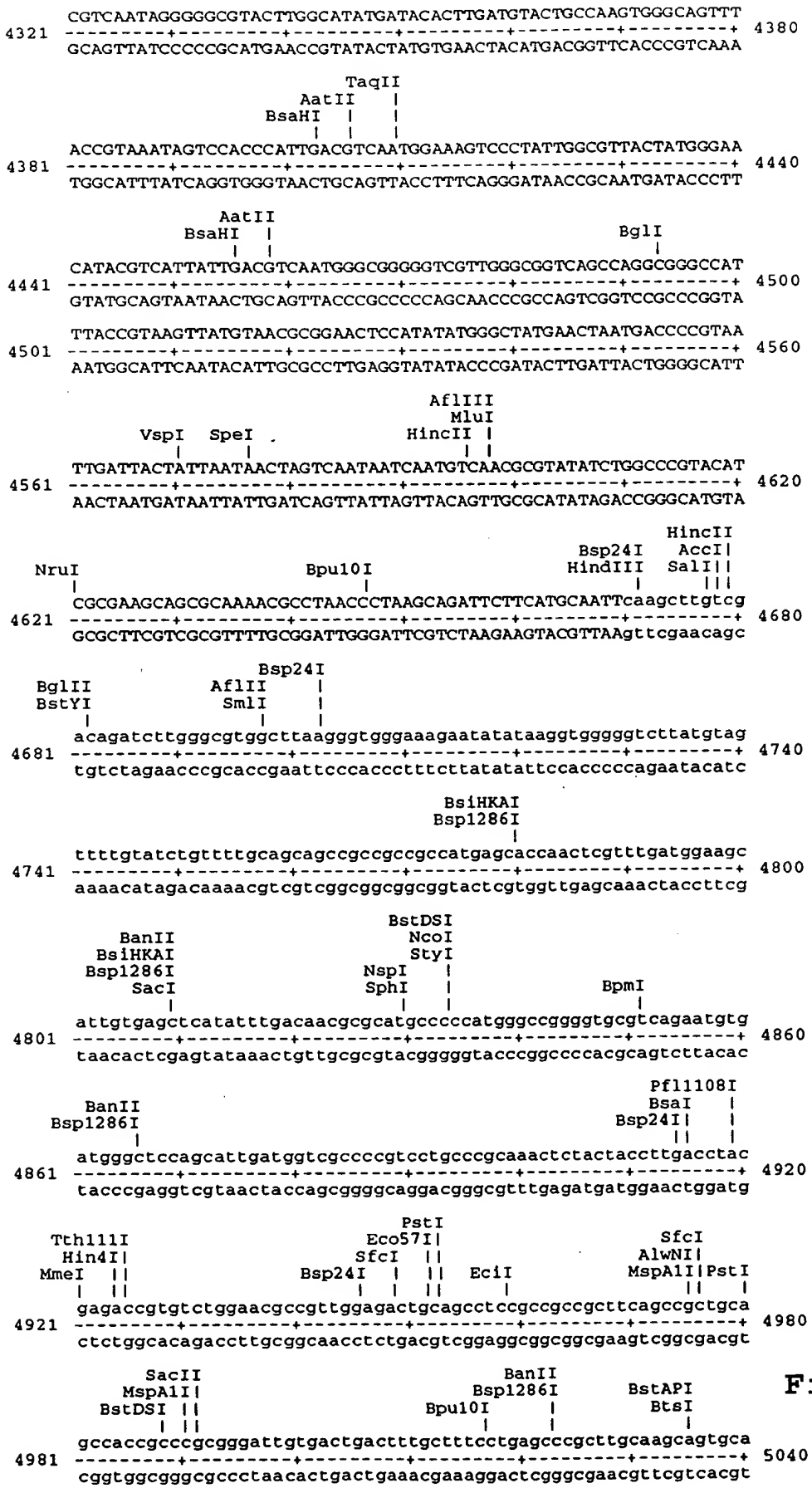
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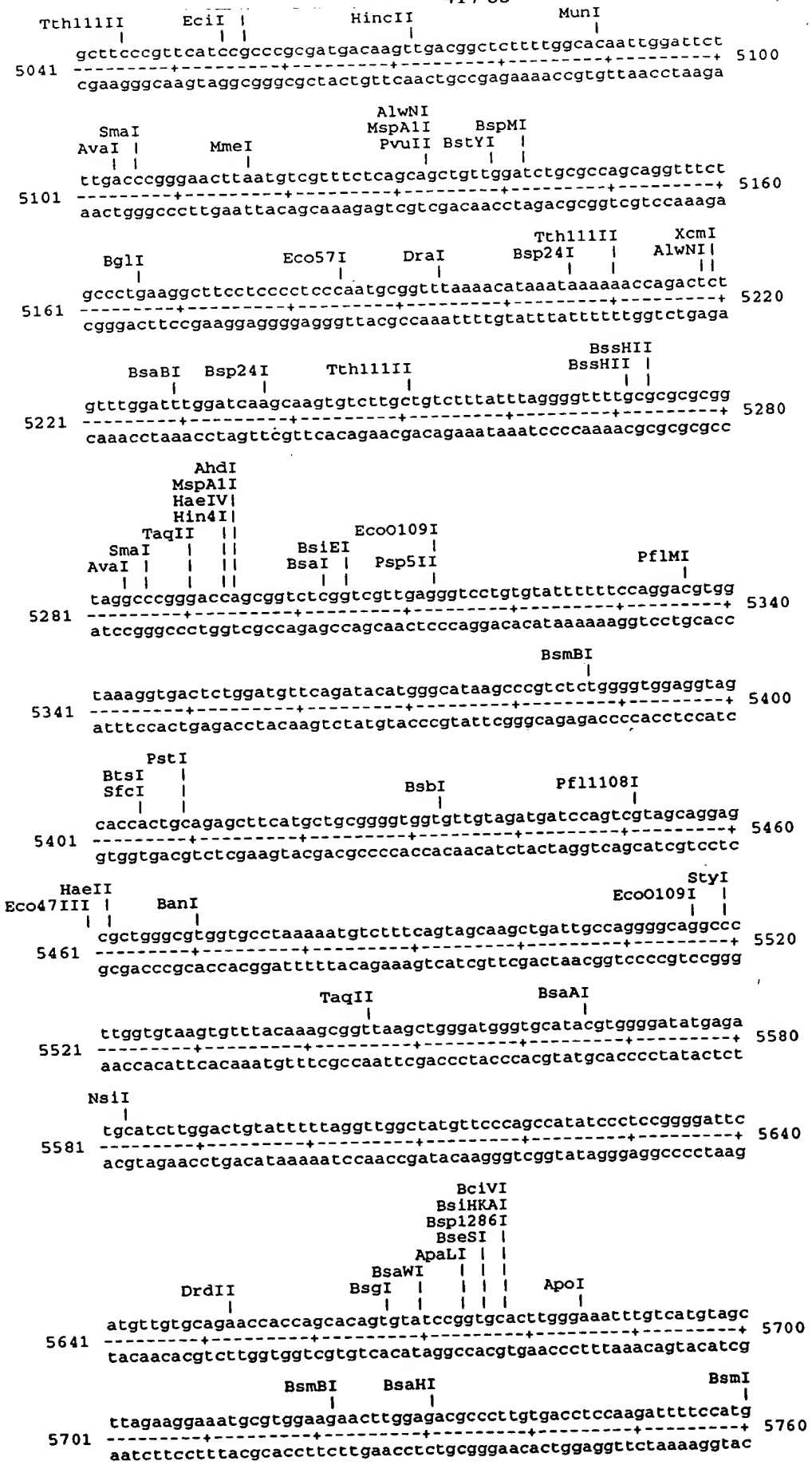
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Figure 28H

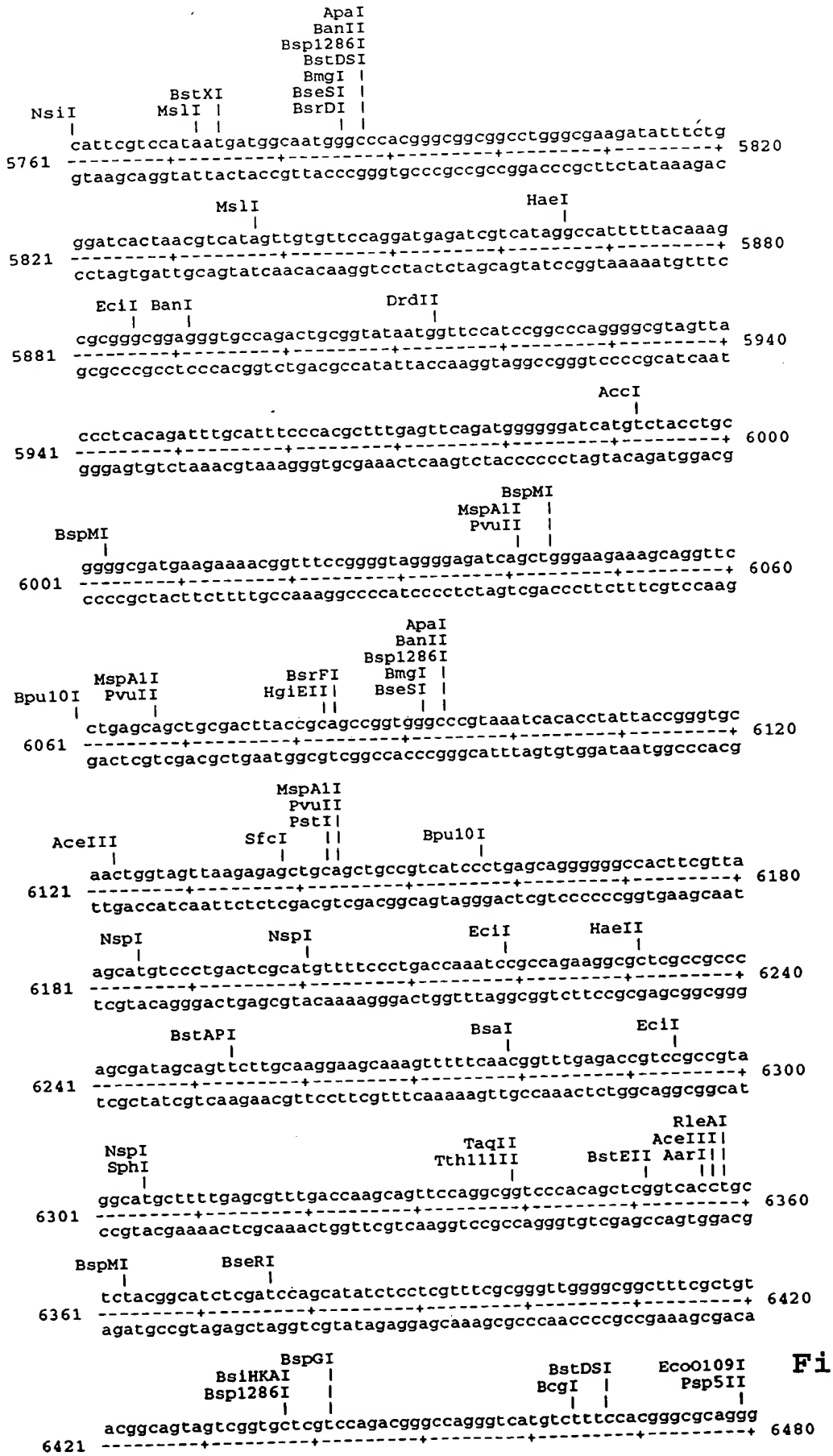
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Figure 28I

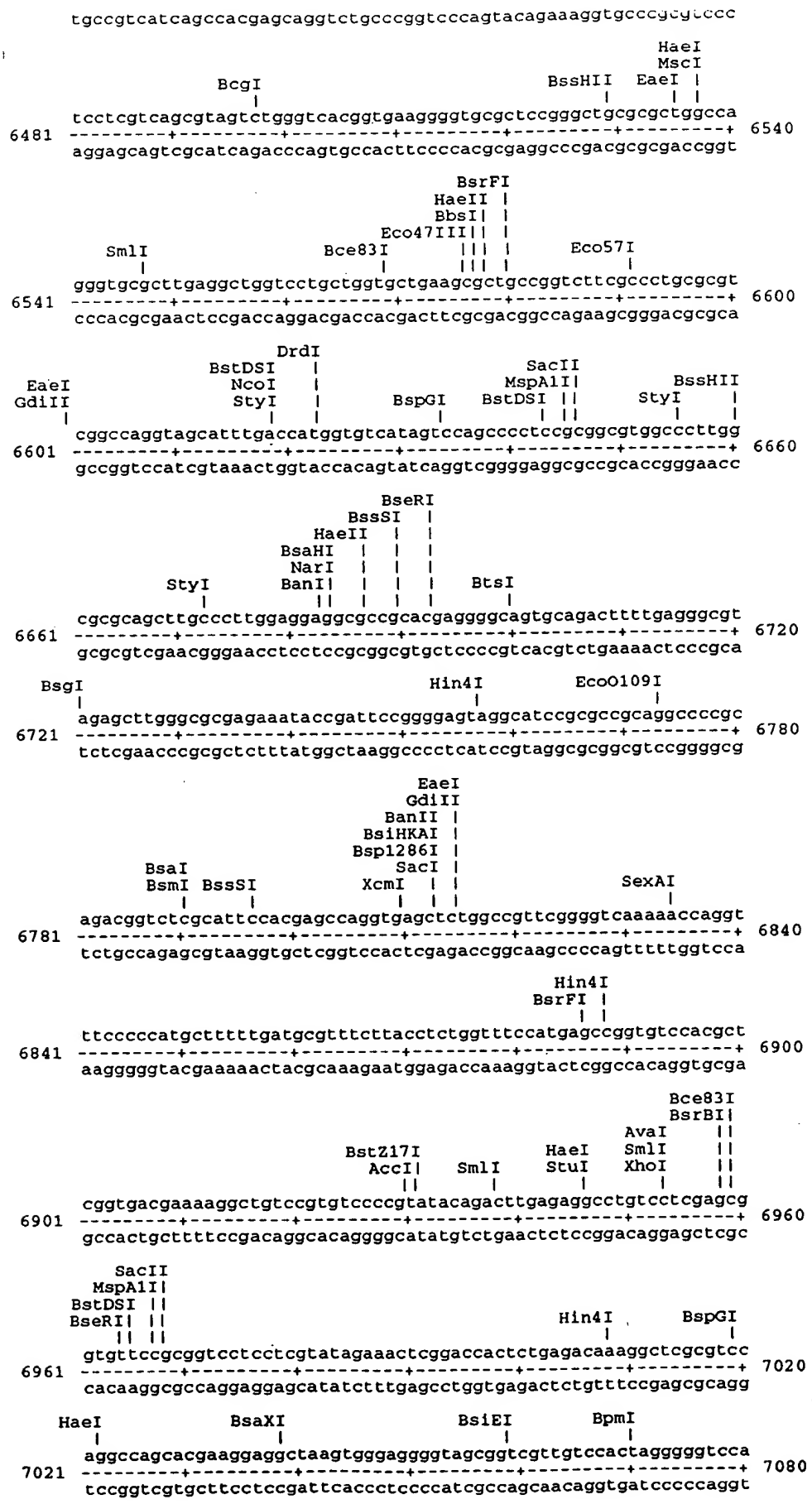
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Figure 28J

44/85

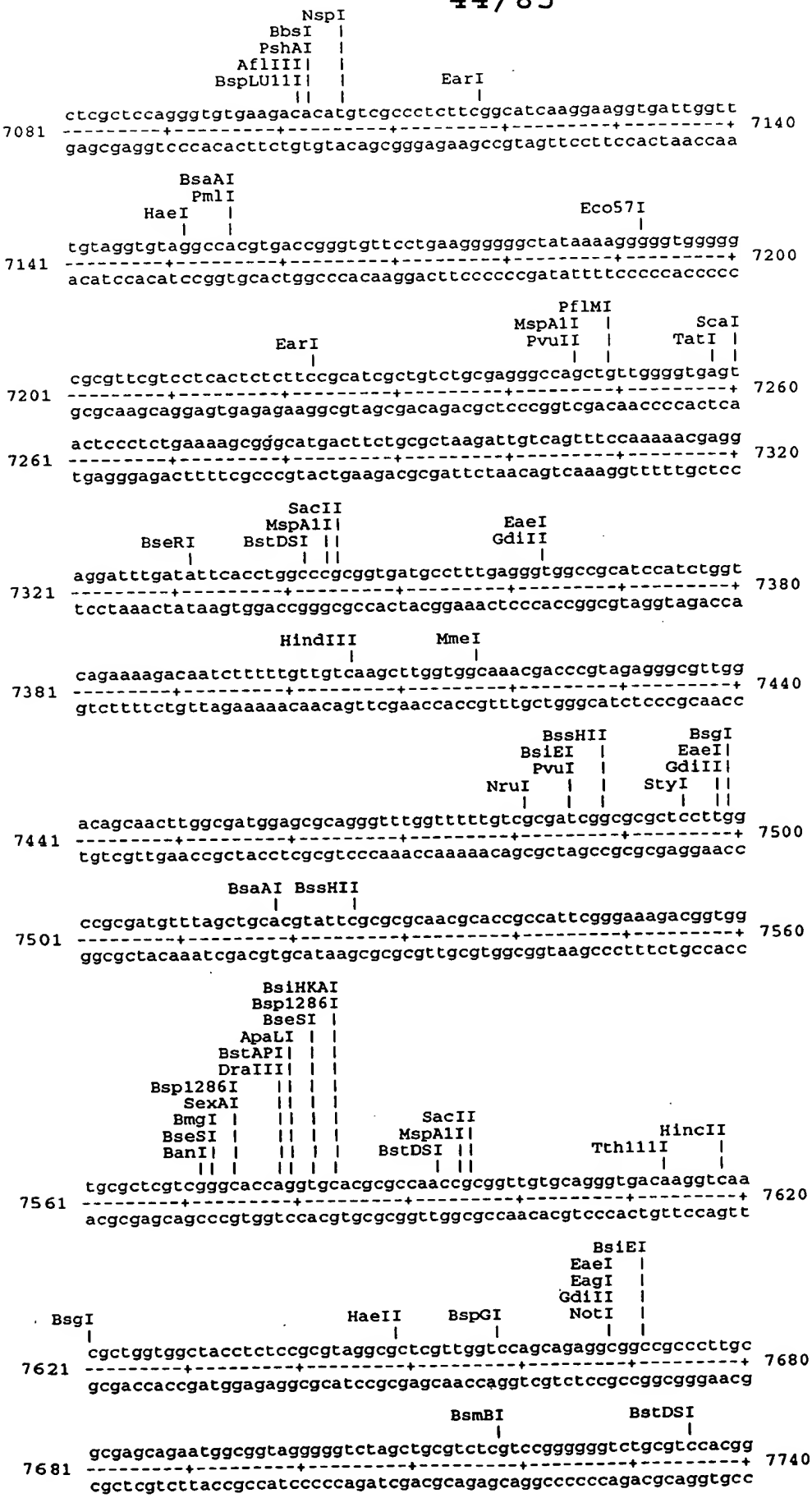
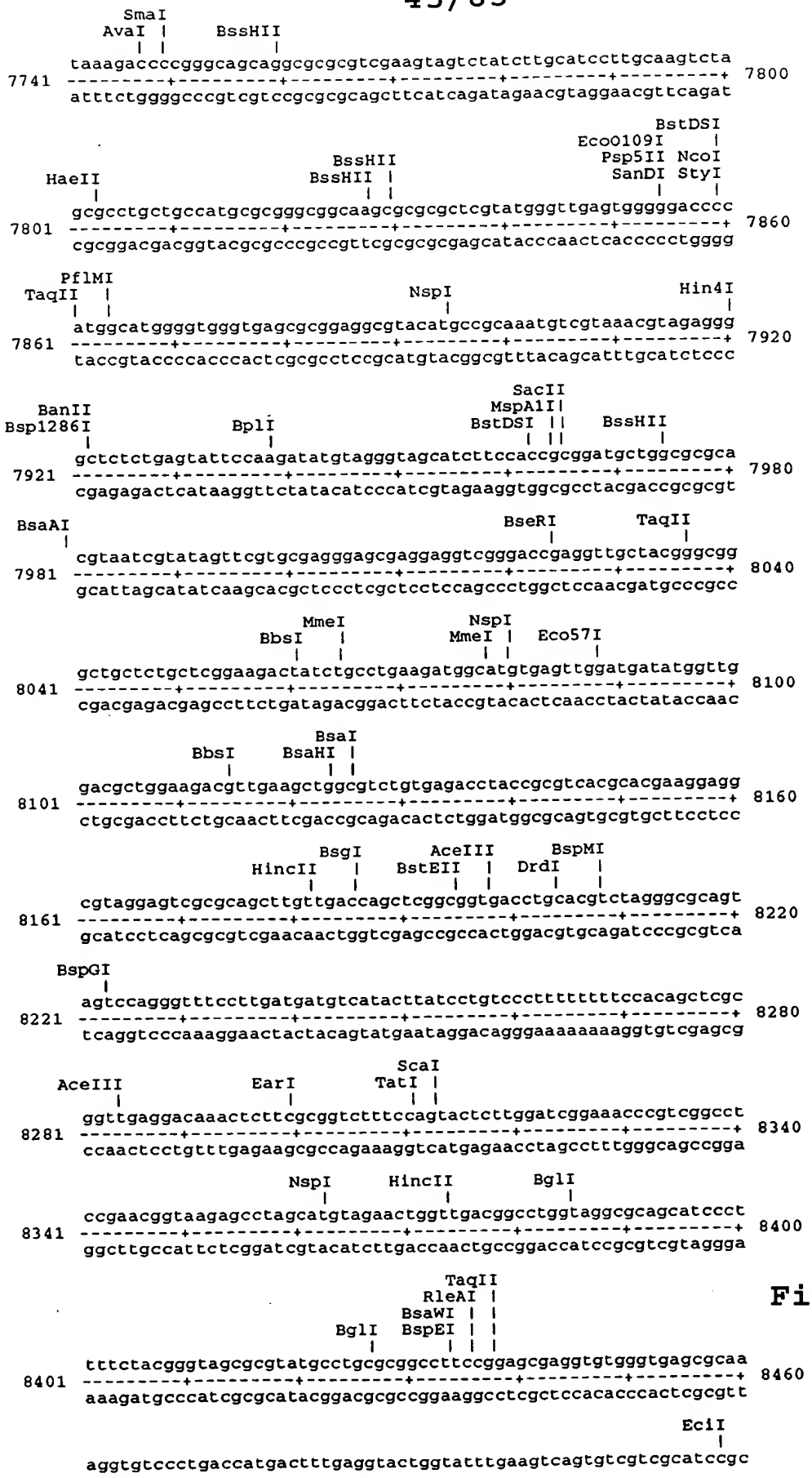


Figure 28K

45/85



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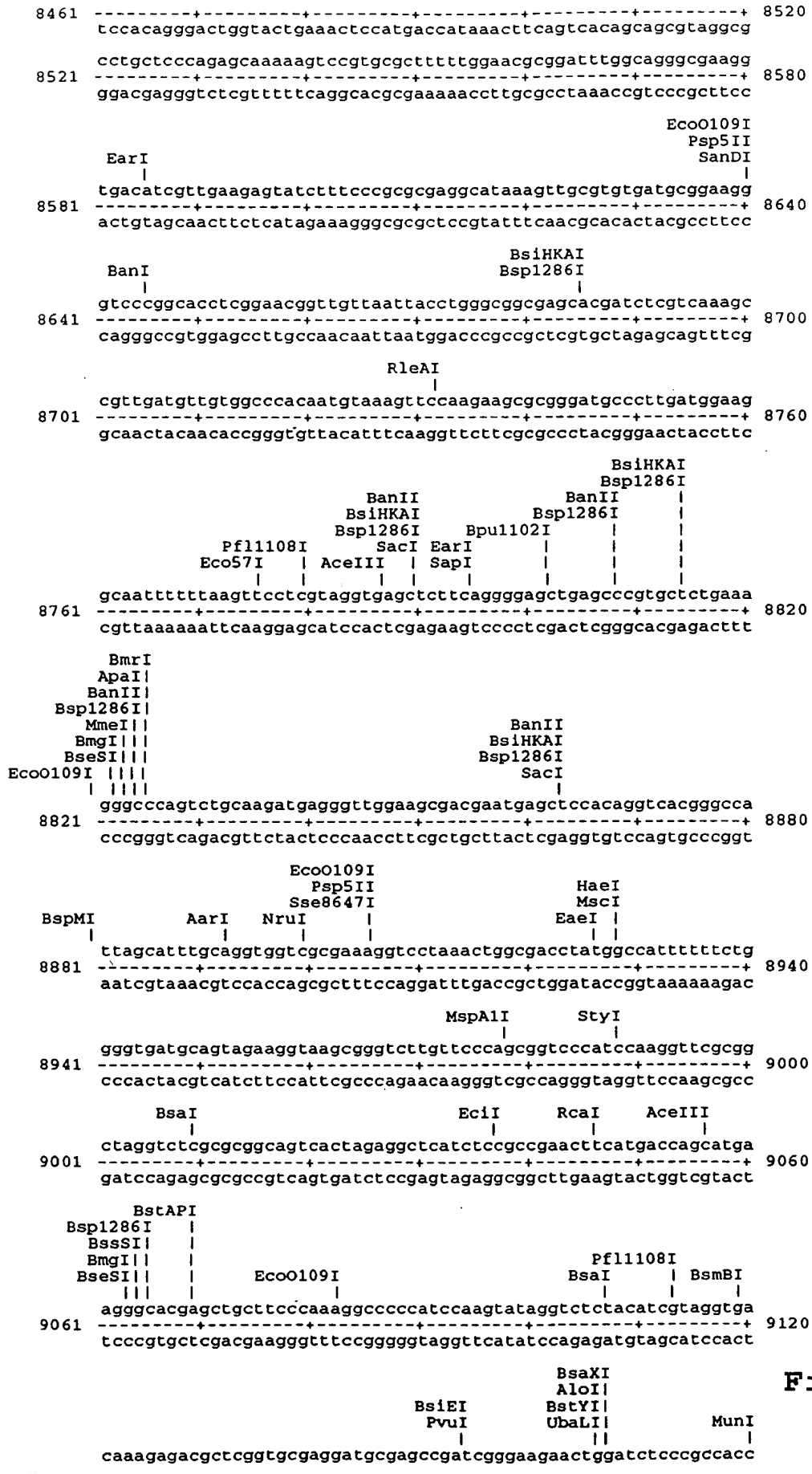
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Figure 28M

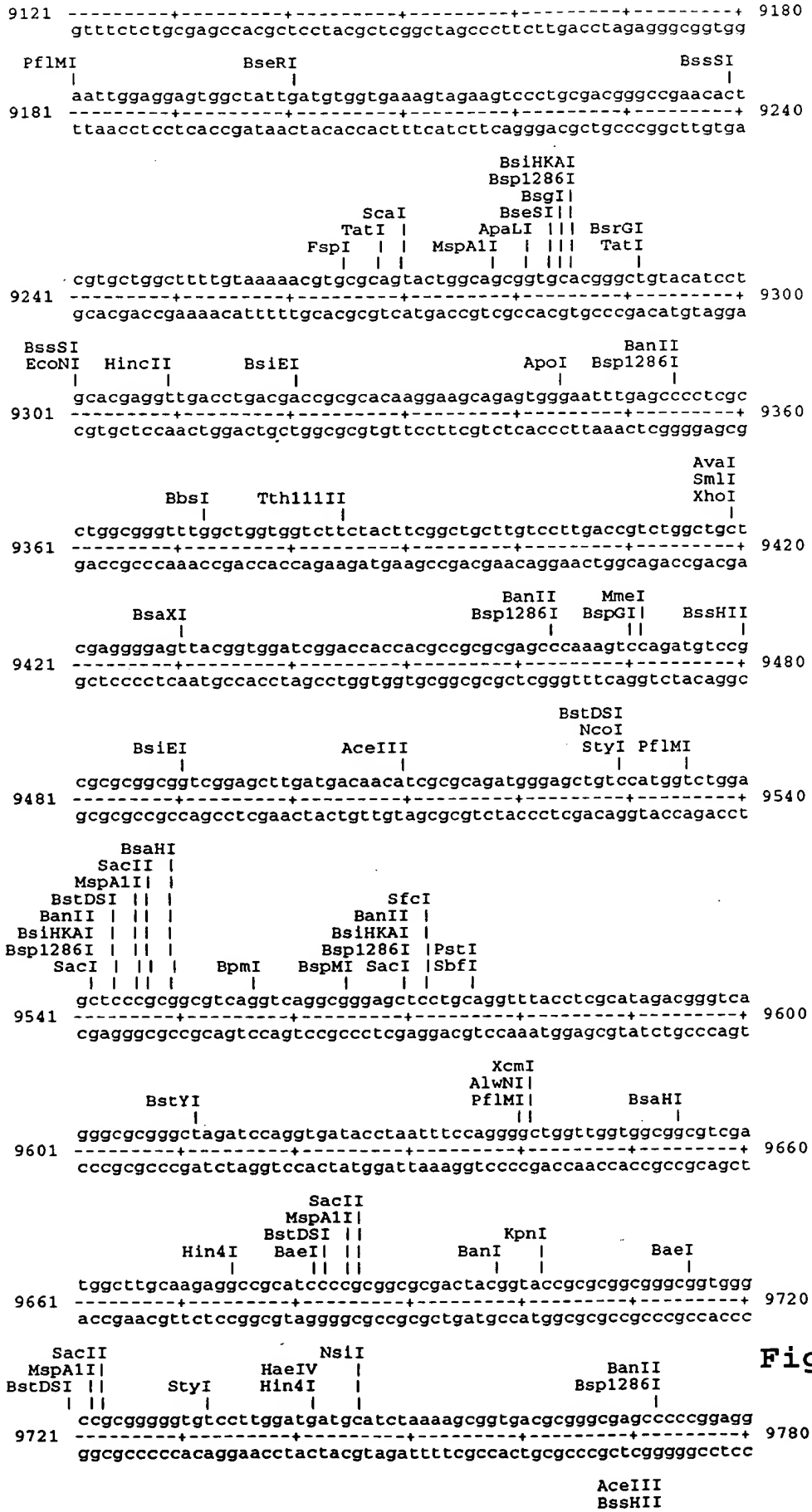
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Figure 28N

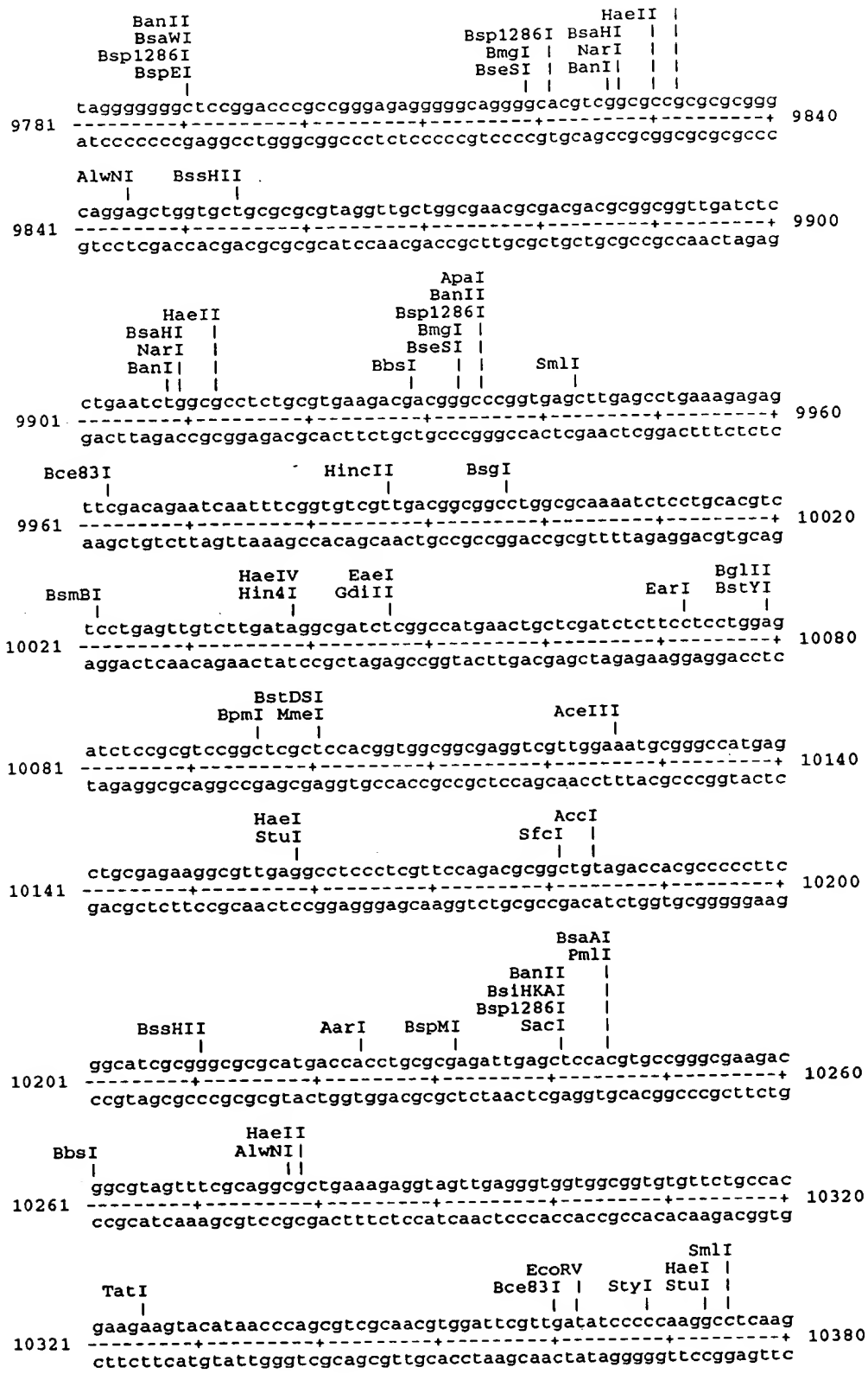
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Figure 280

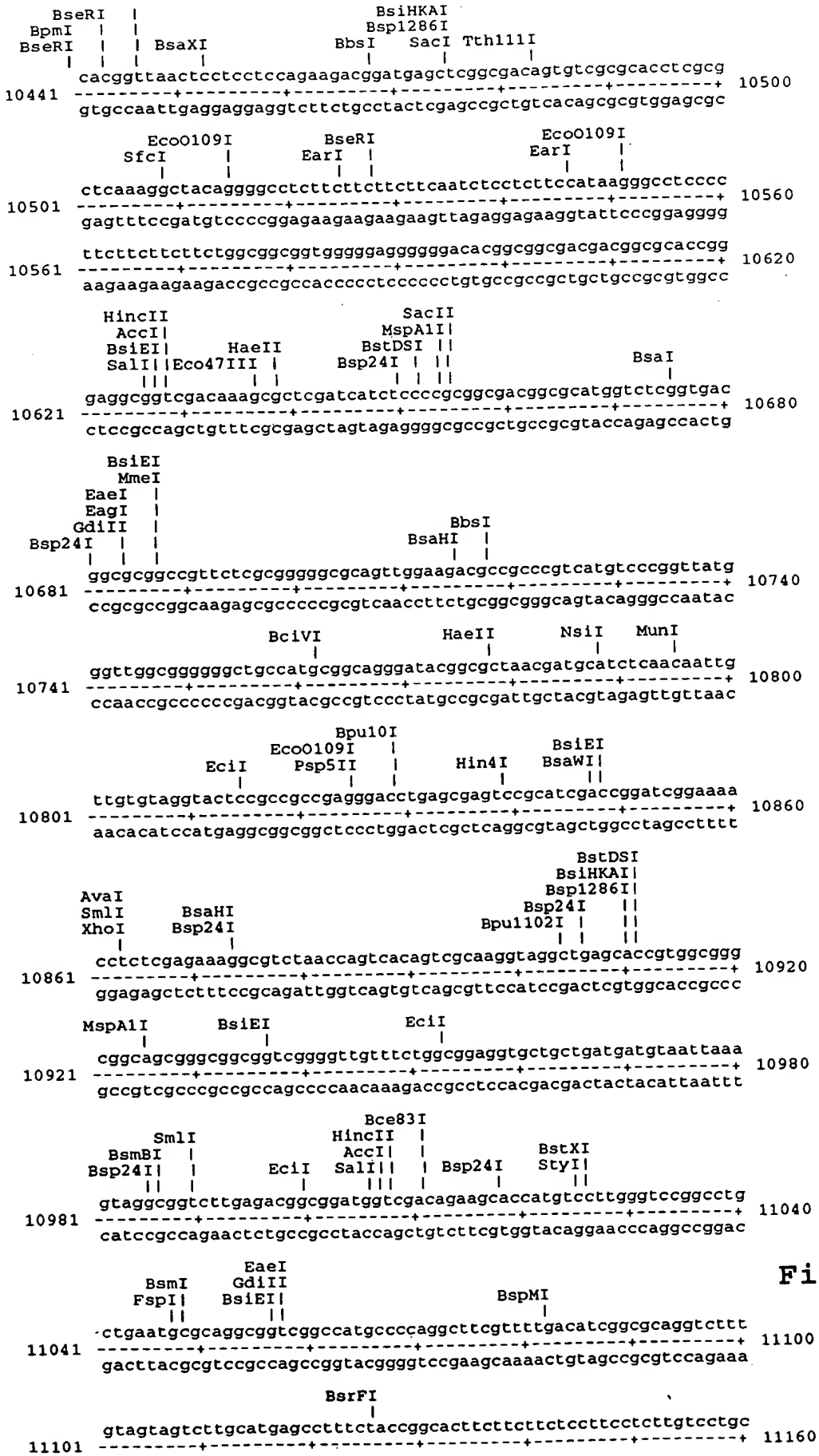
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Figure 28P

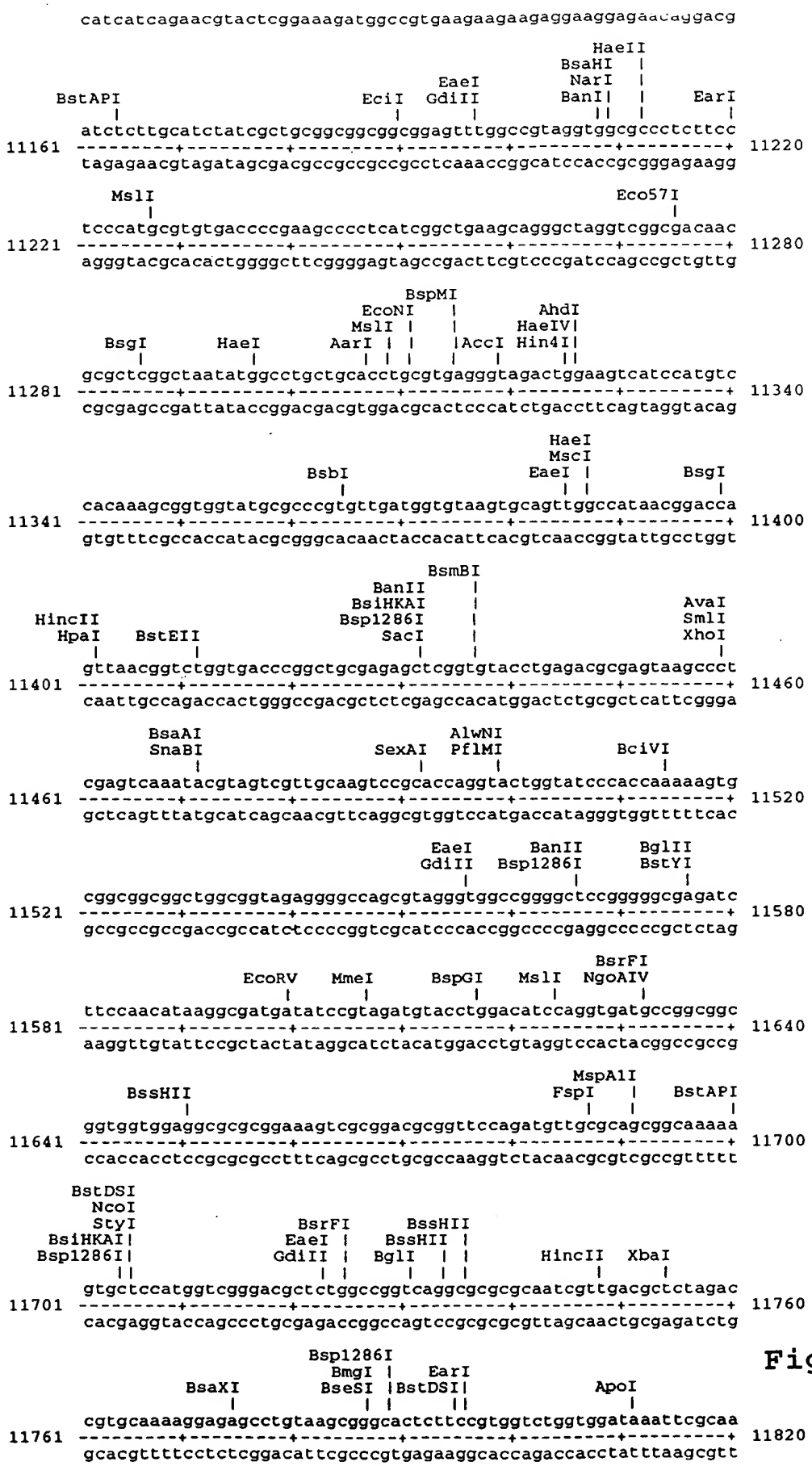
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Figure 28Q

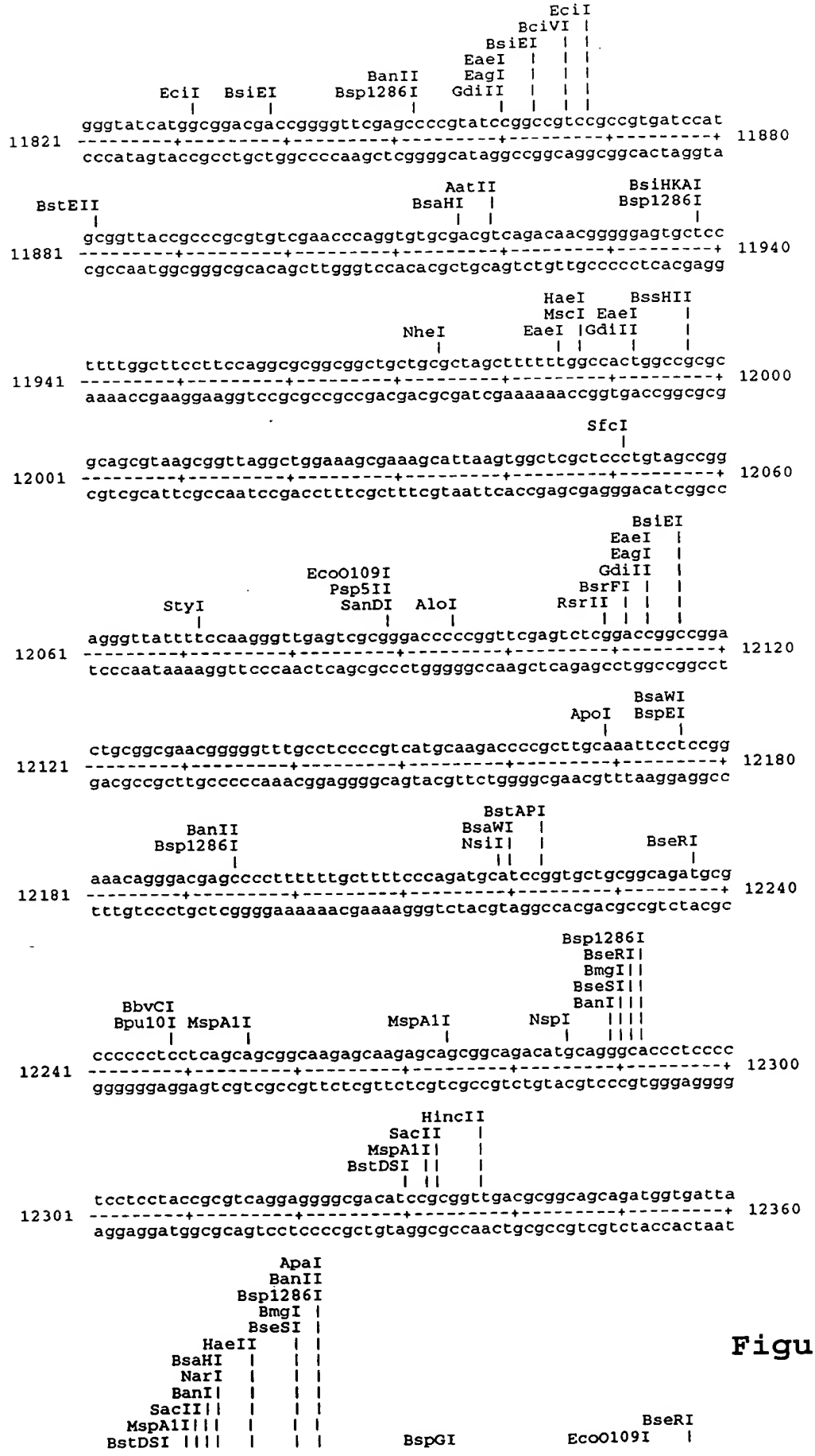
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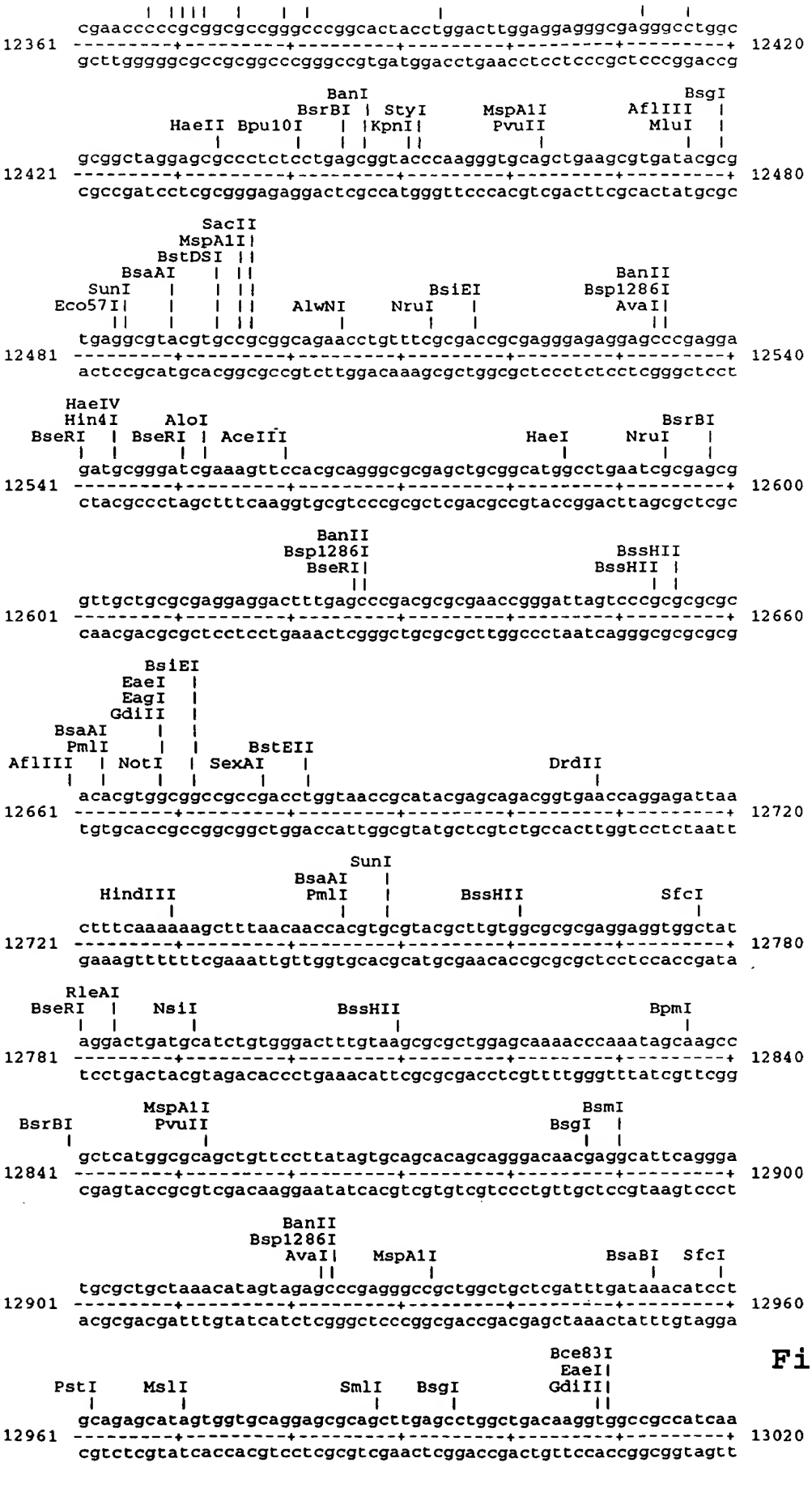
Figure 28R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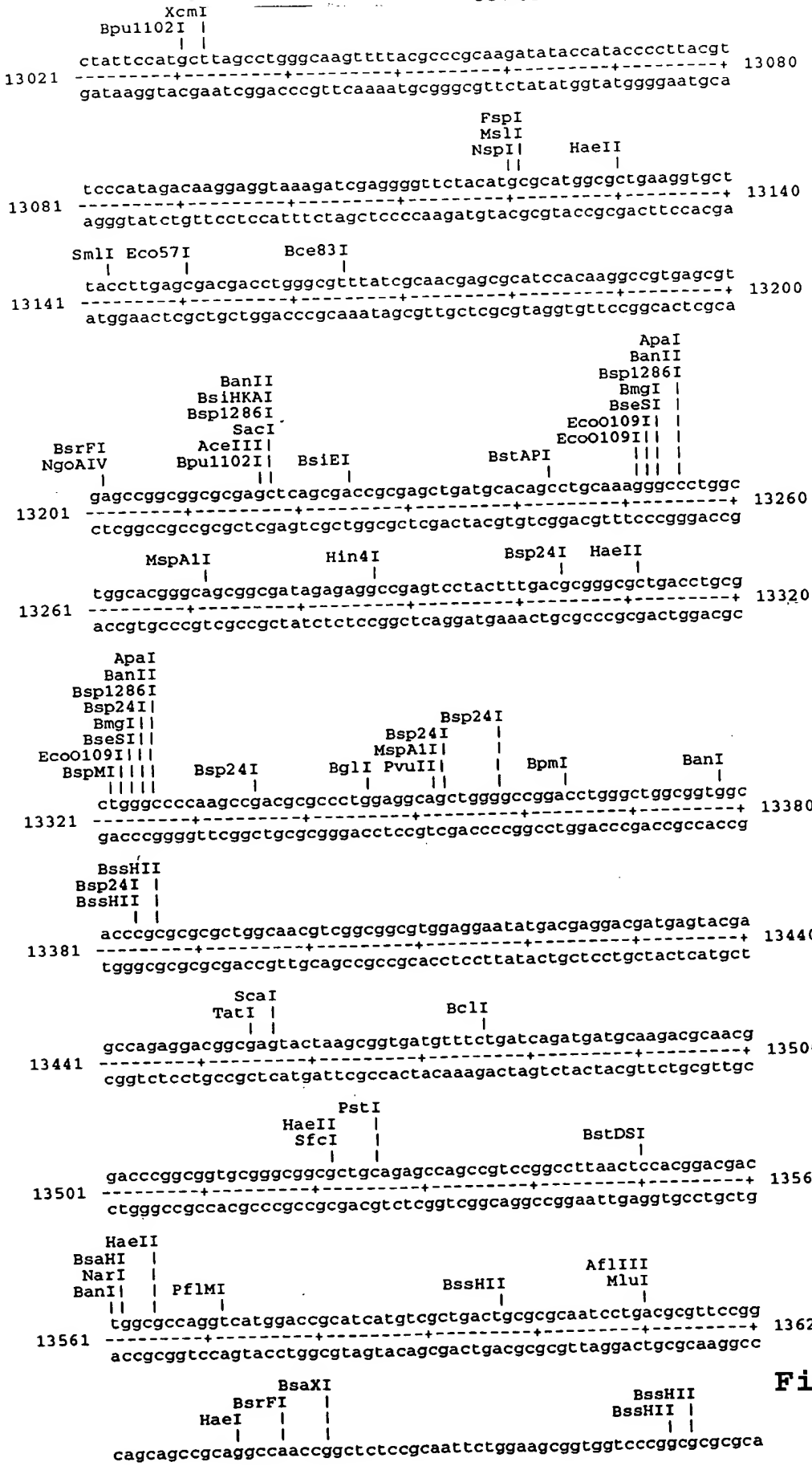
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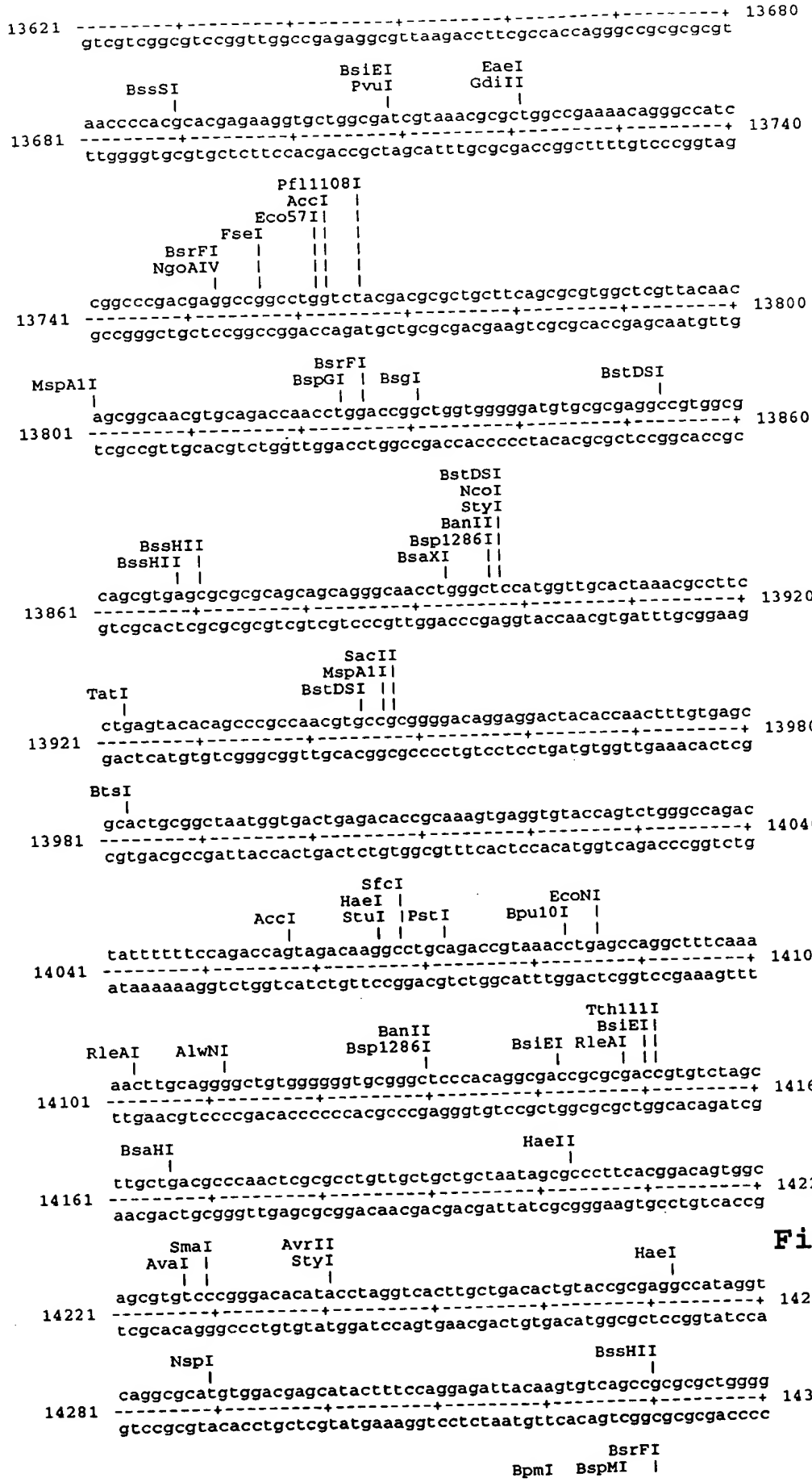
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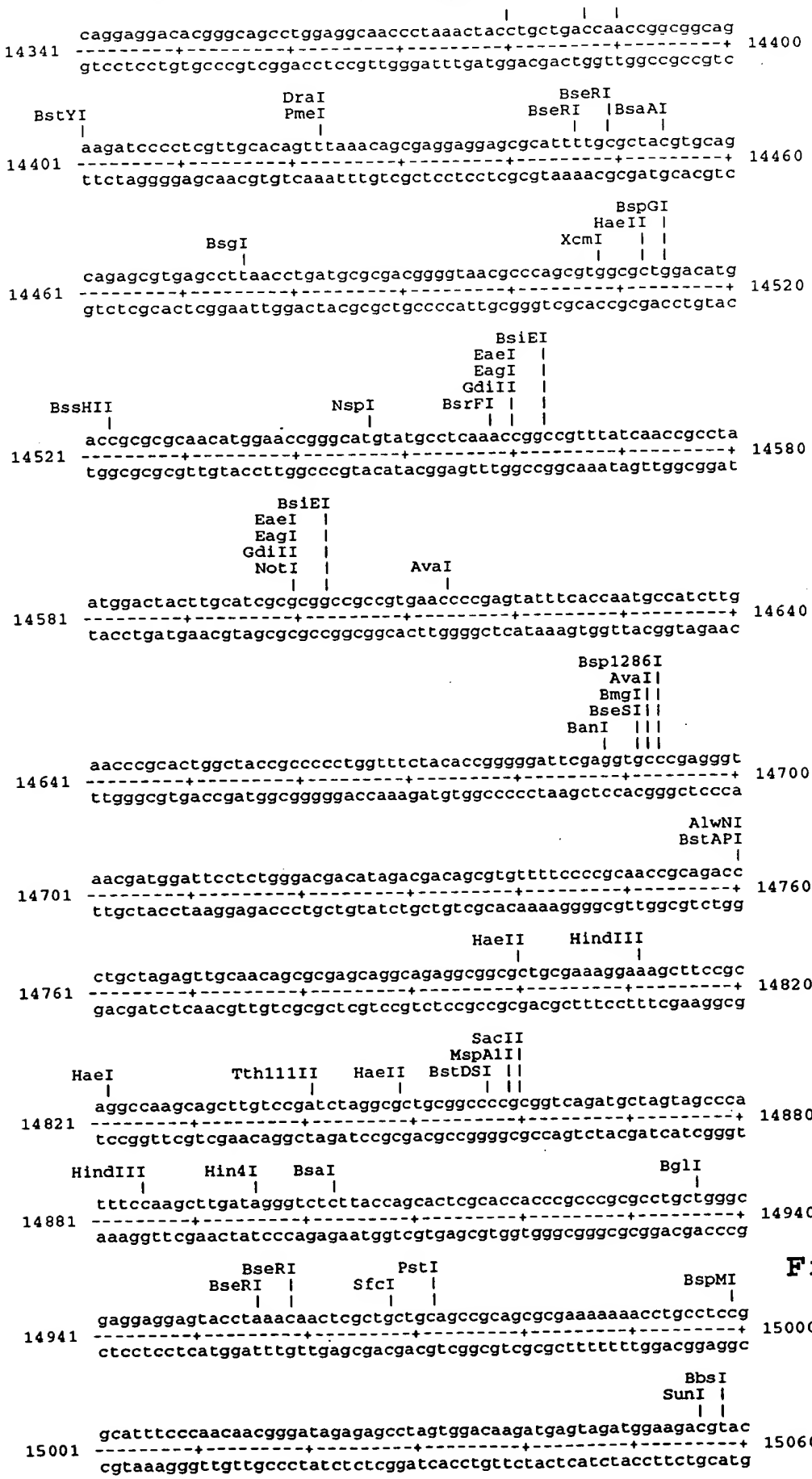
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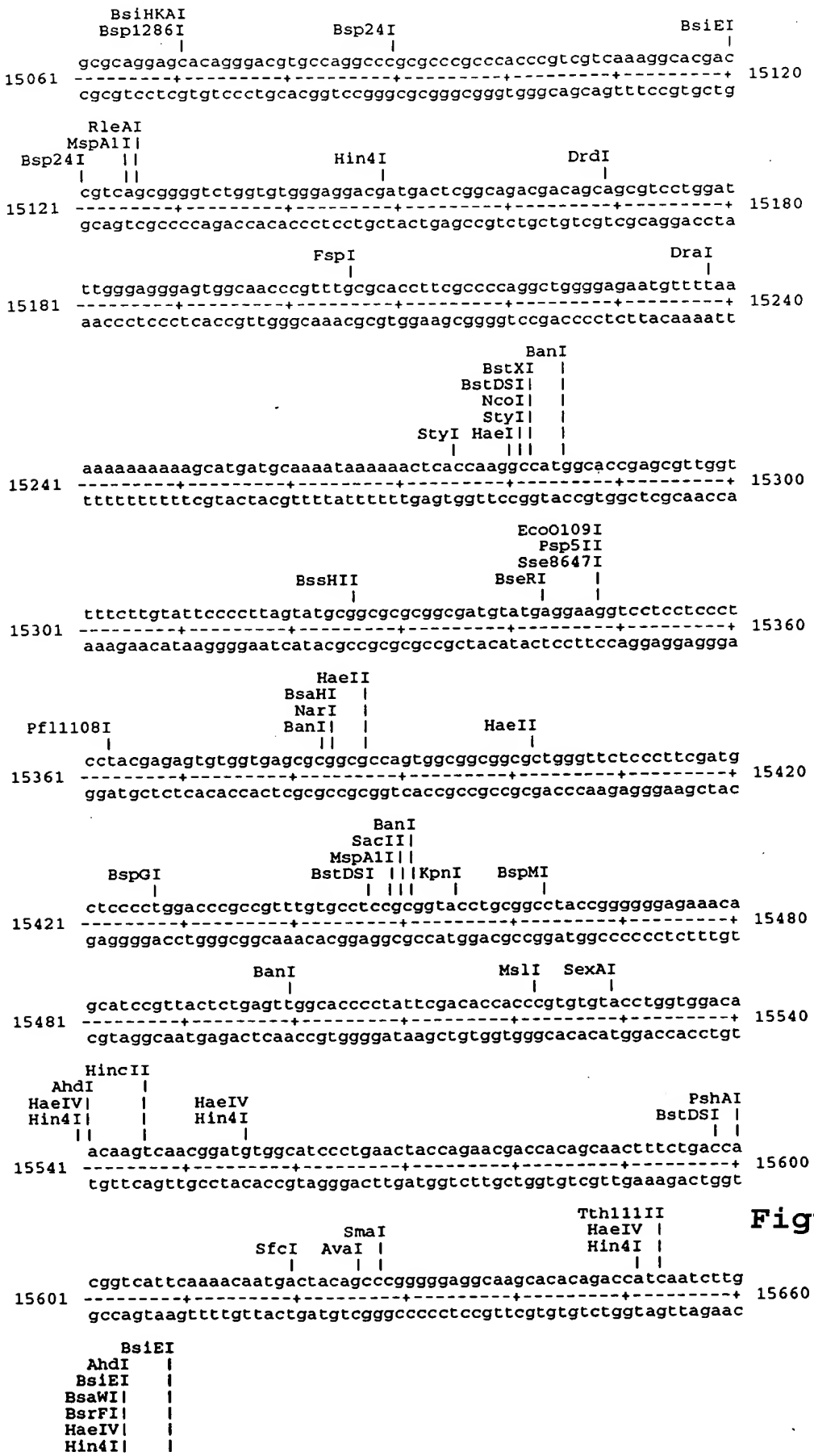
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Figure 28W

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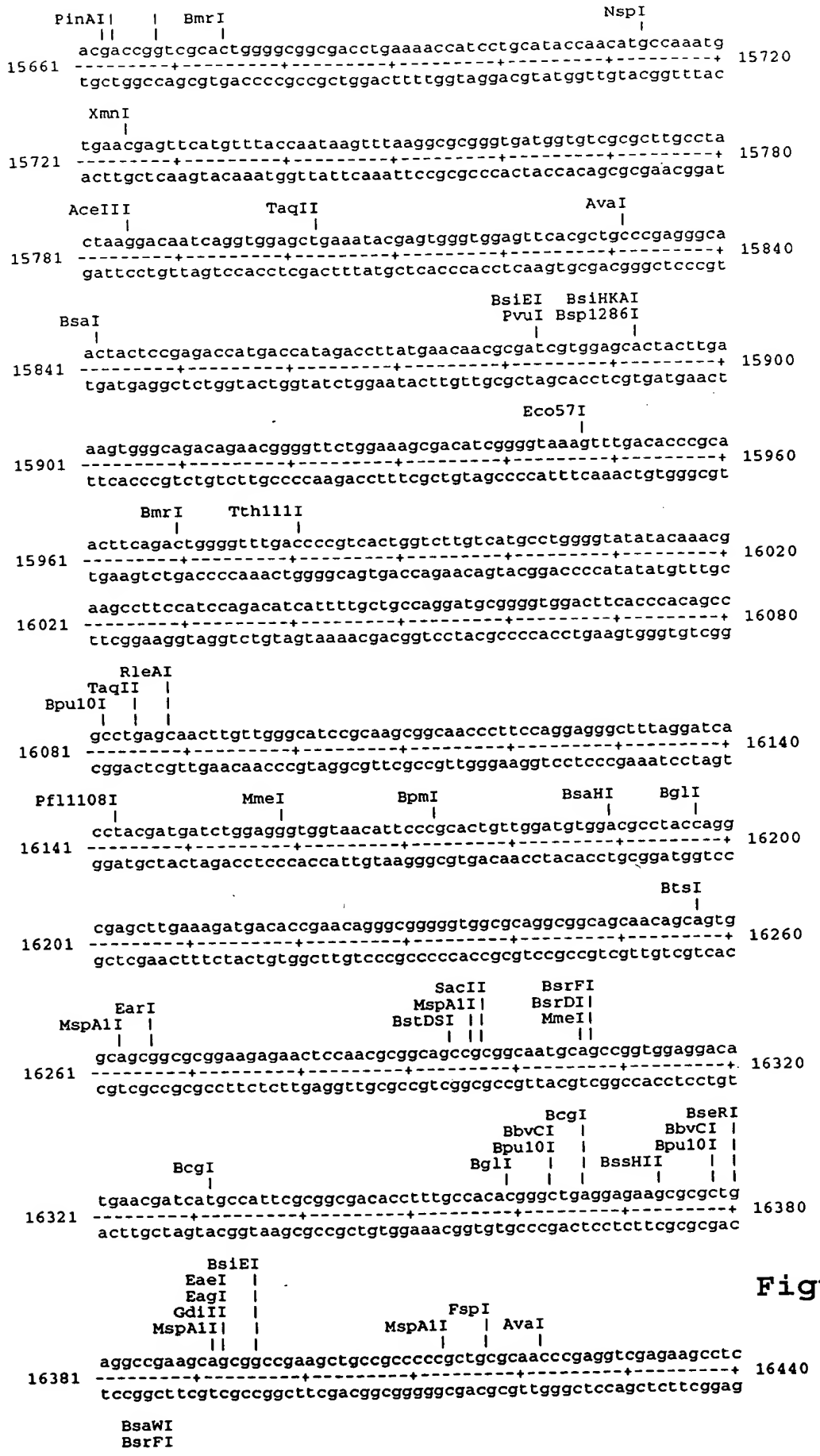

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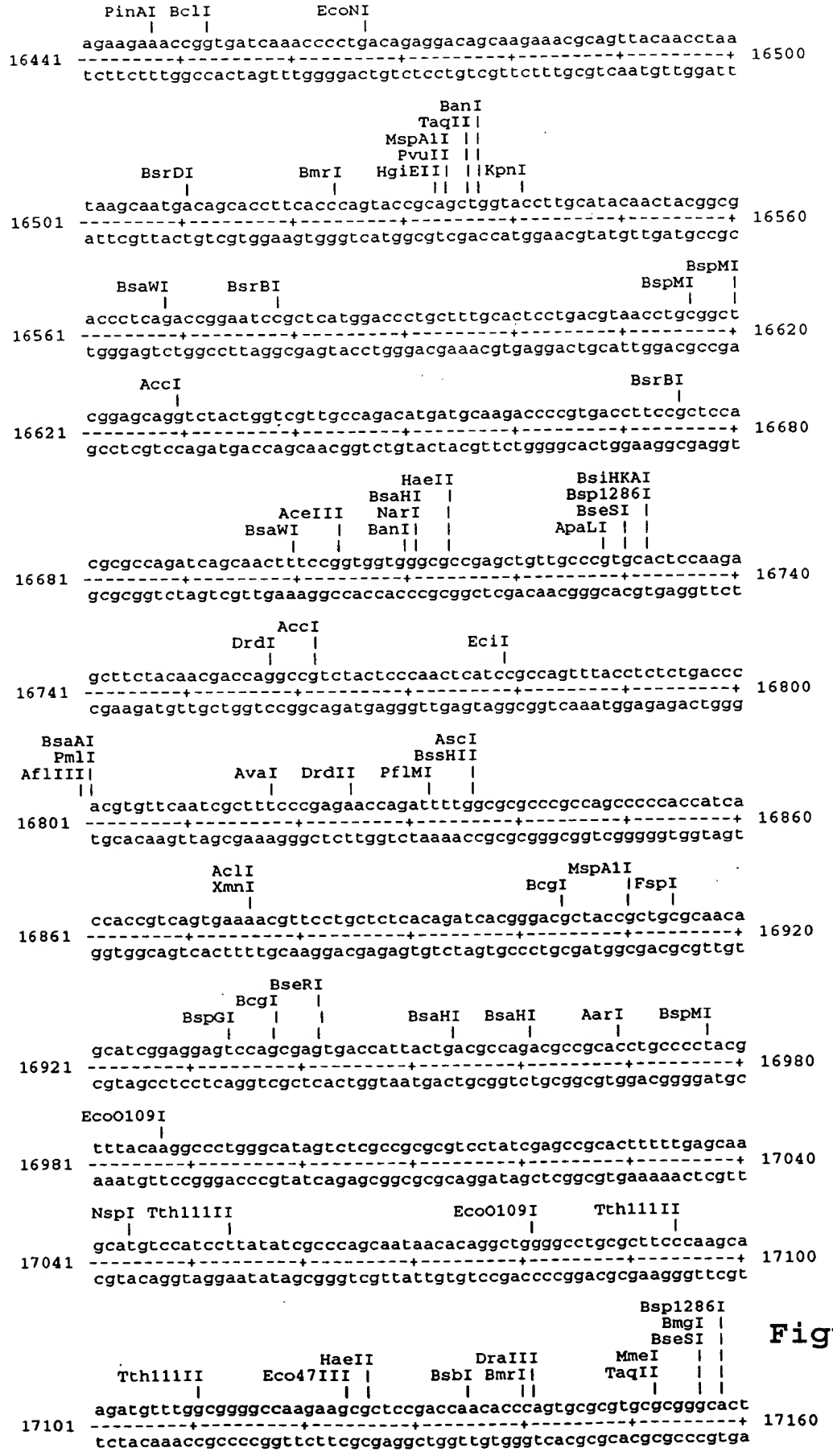
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Figure 28Y

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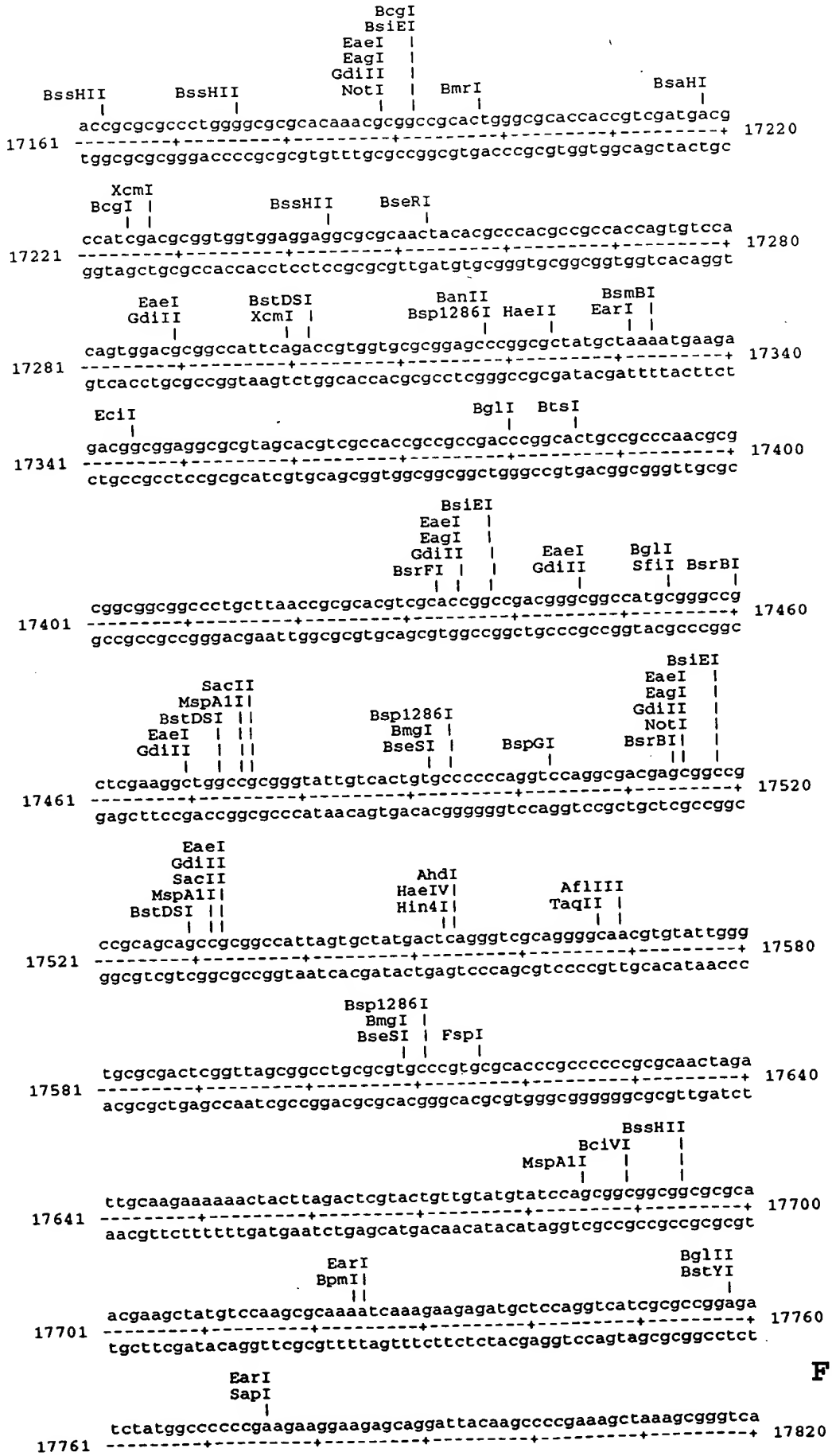

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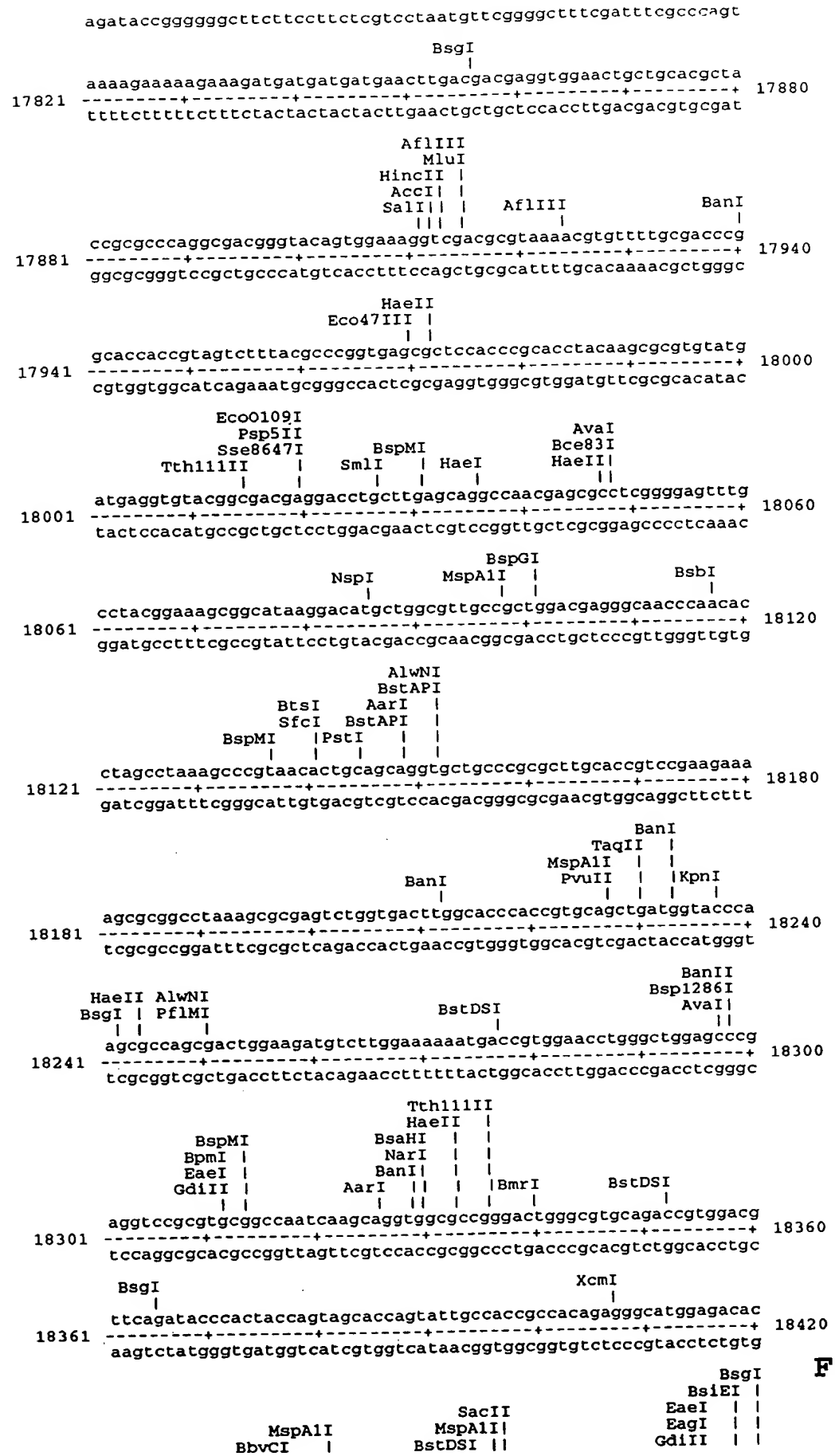
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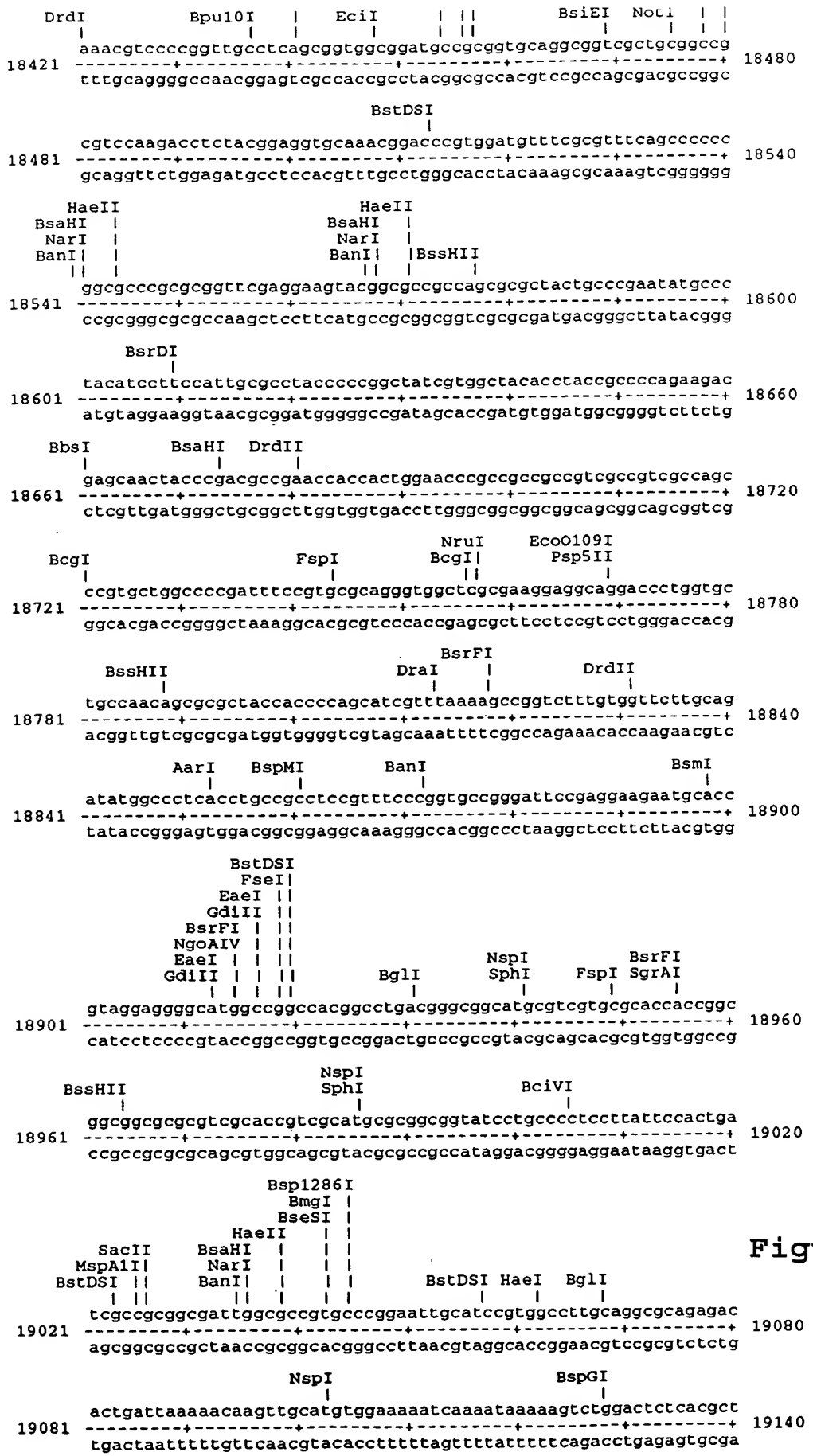
Figure 28AA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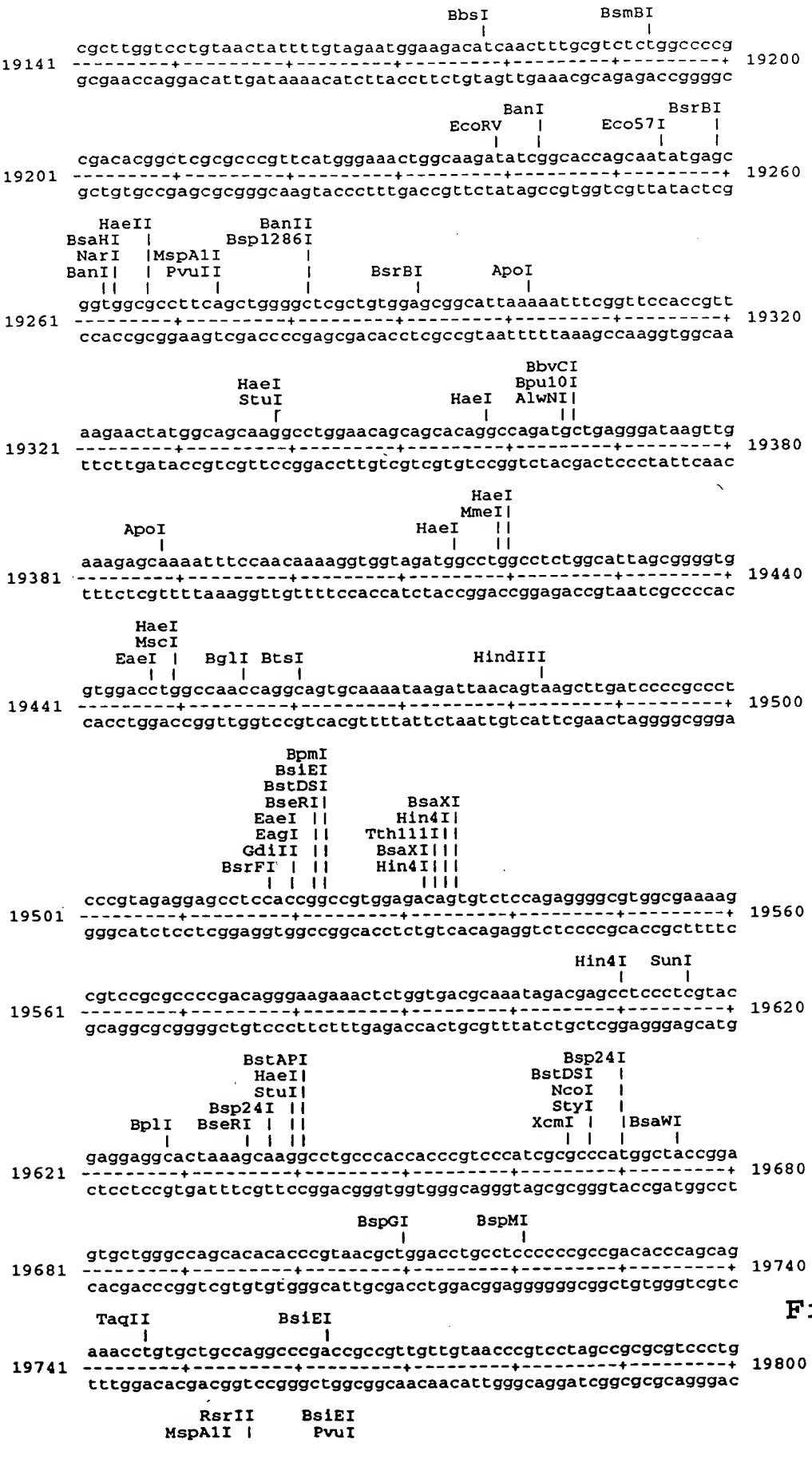
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Figure 28CC

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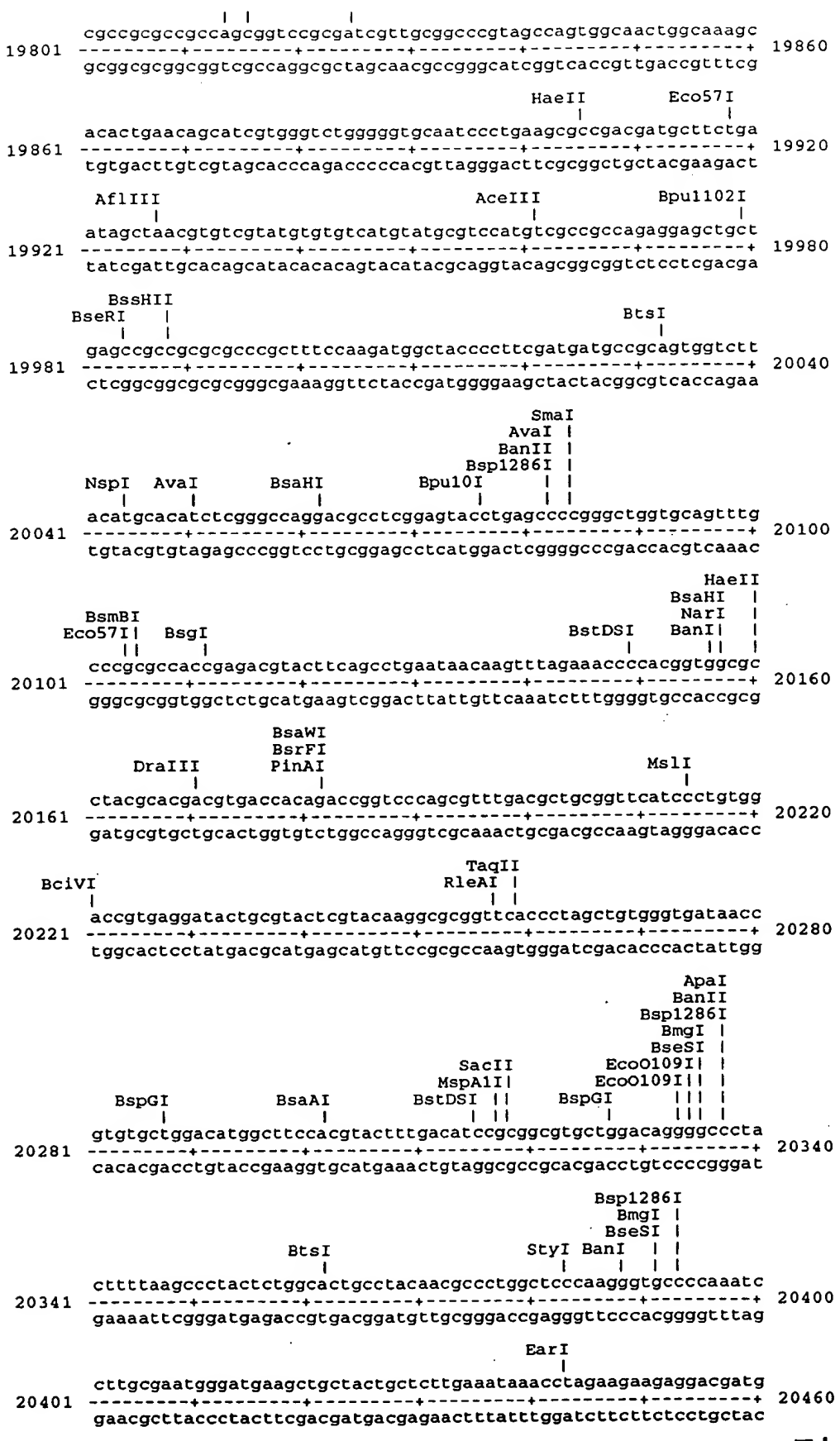

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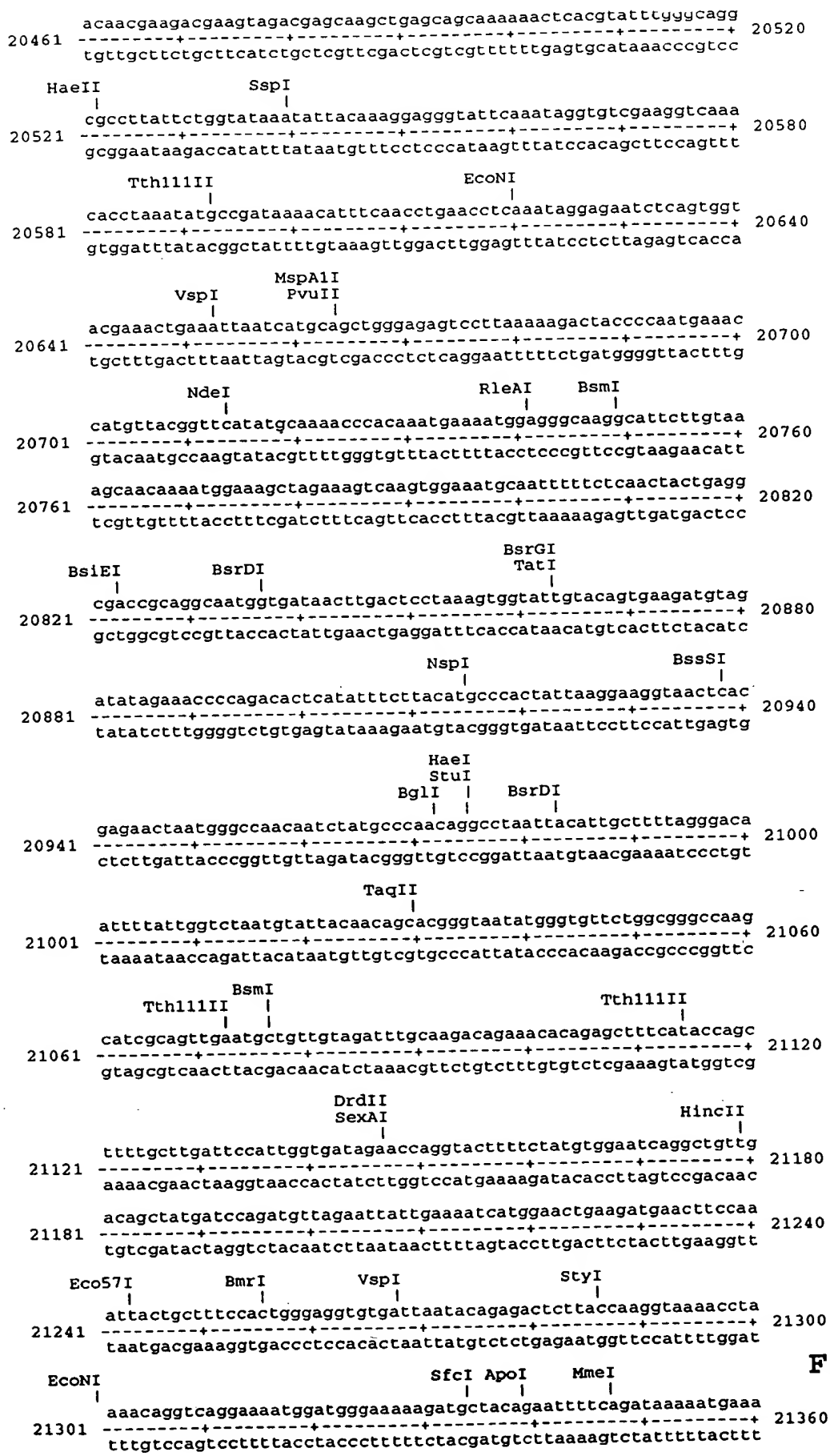
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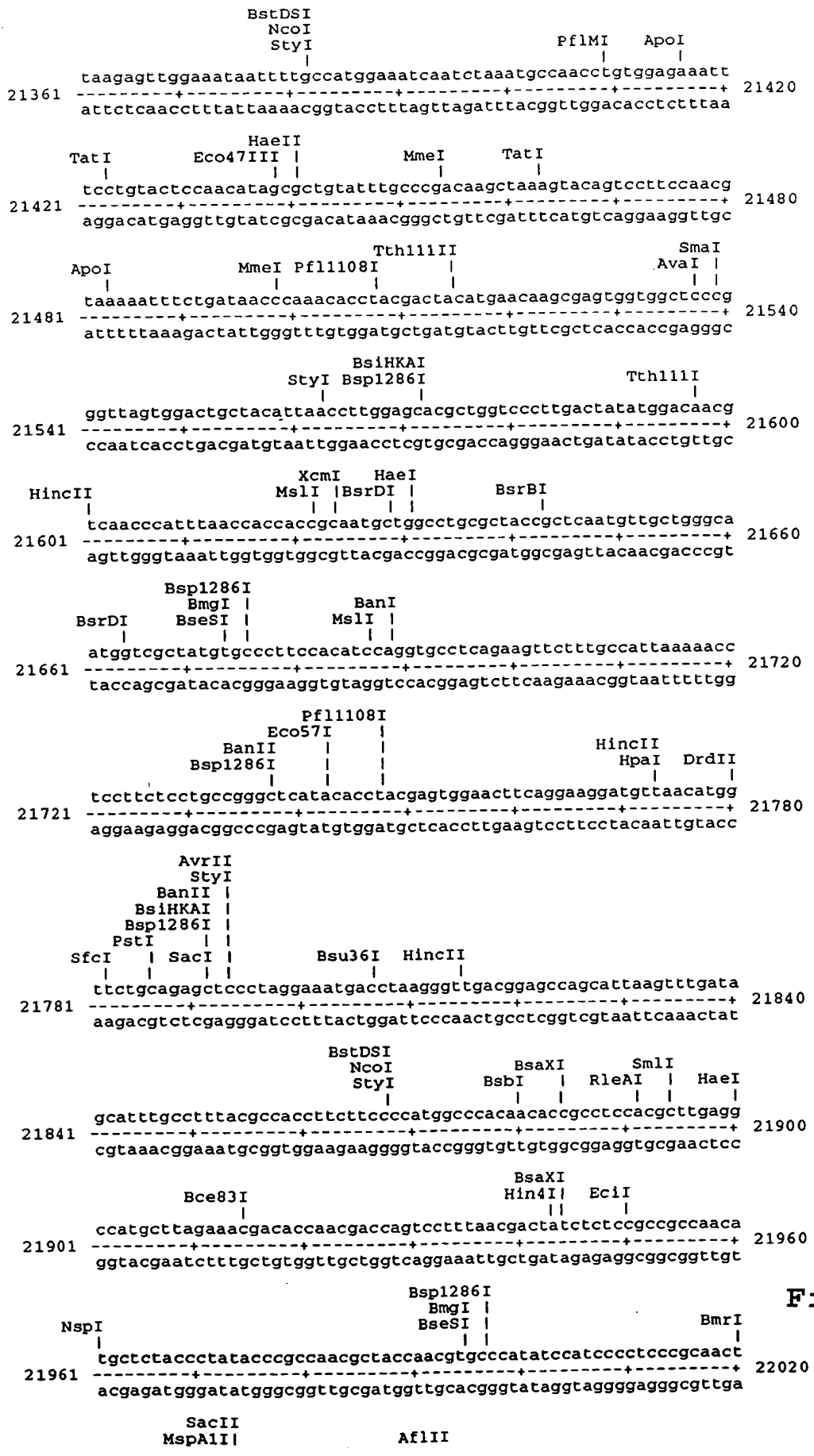
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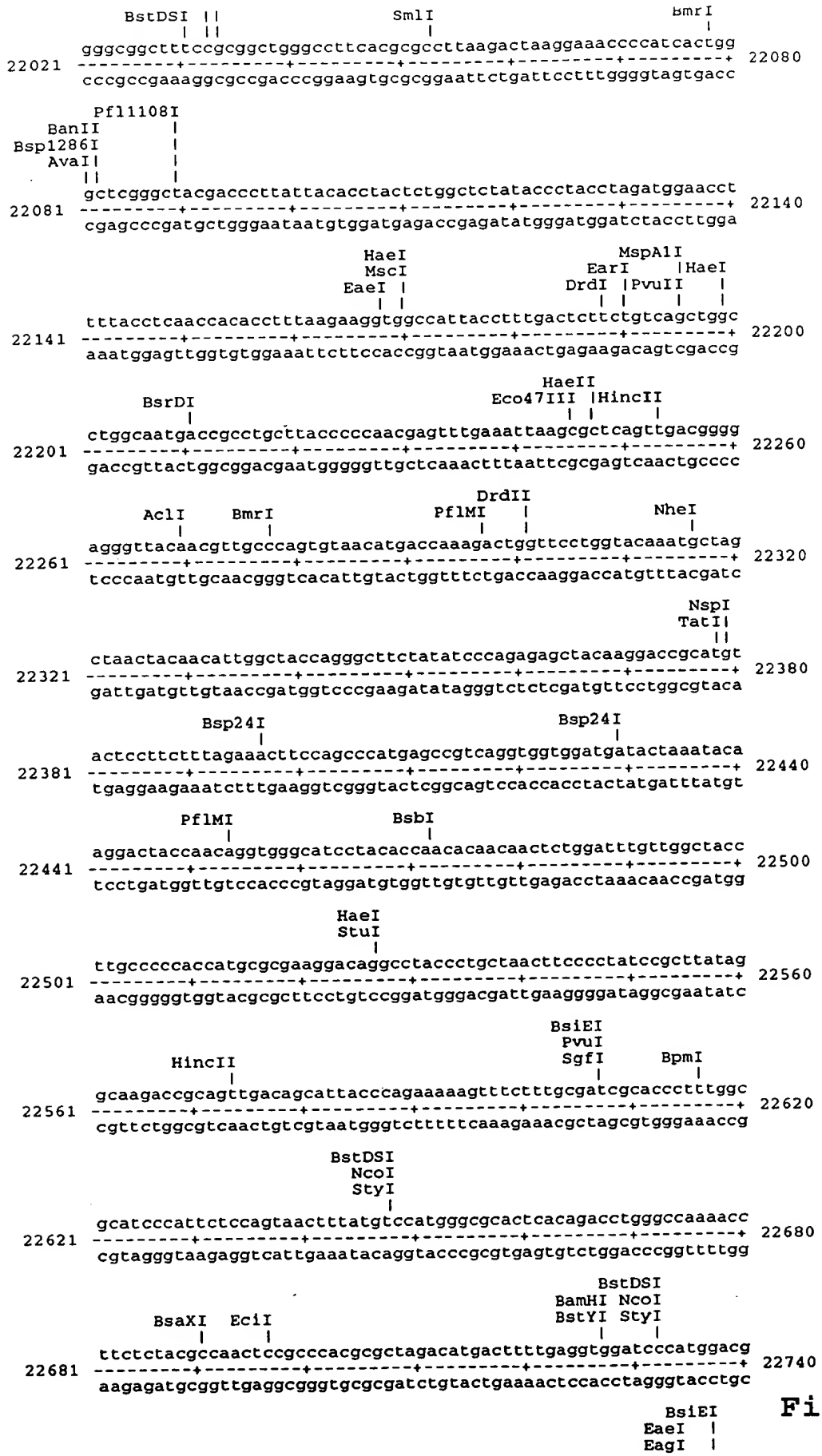
Figure 28FF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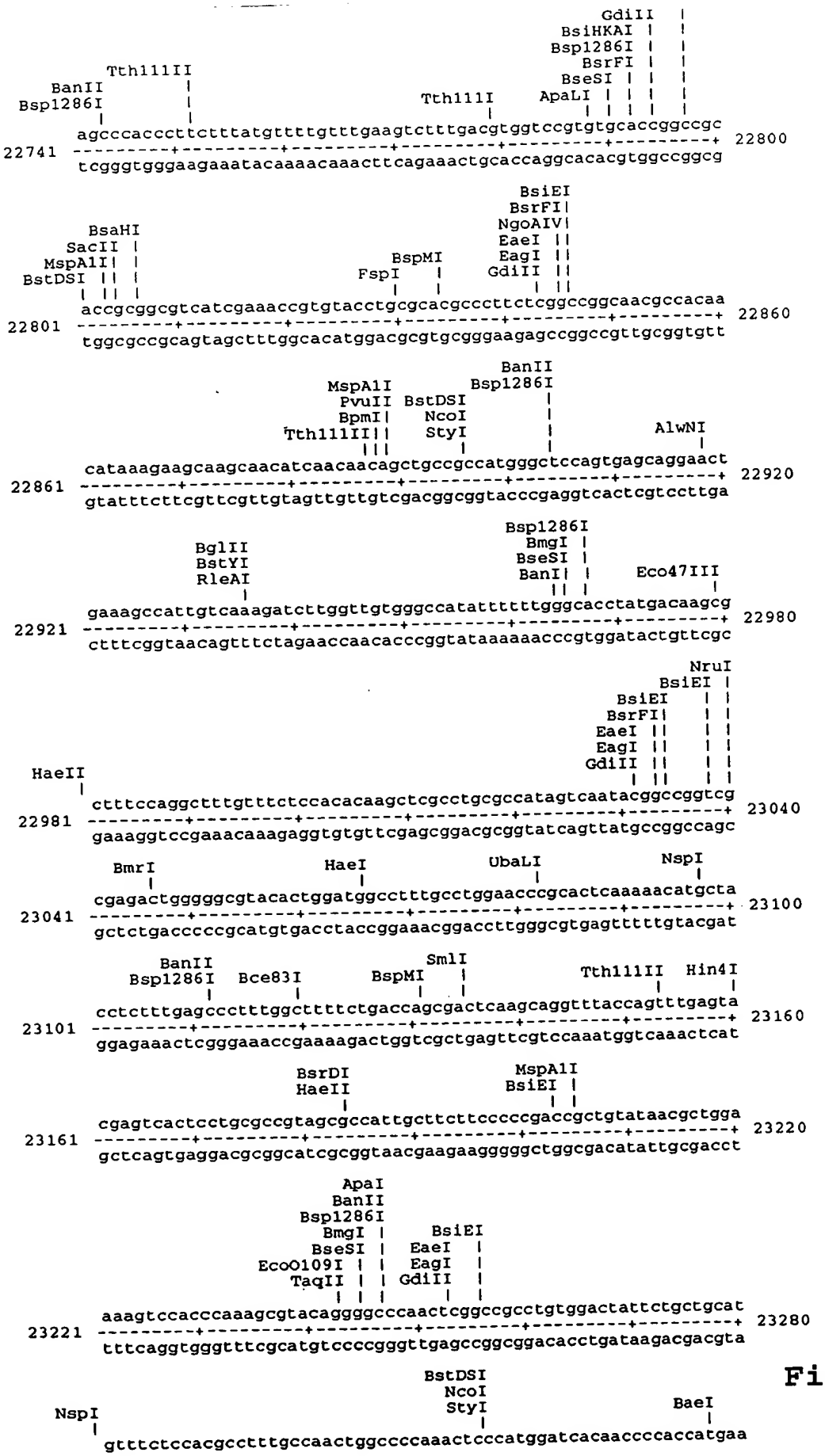
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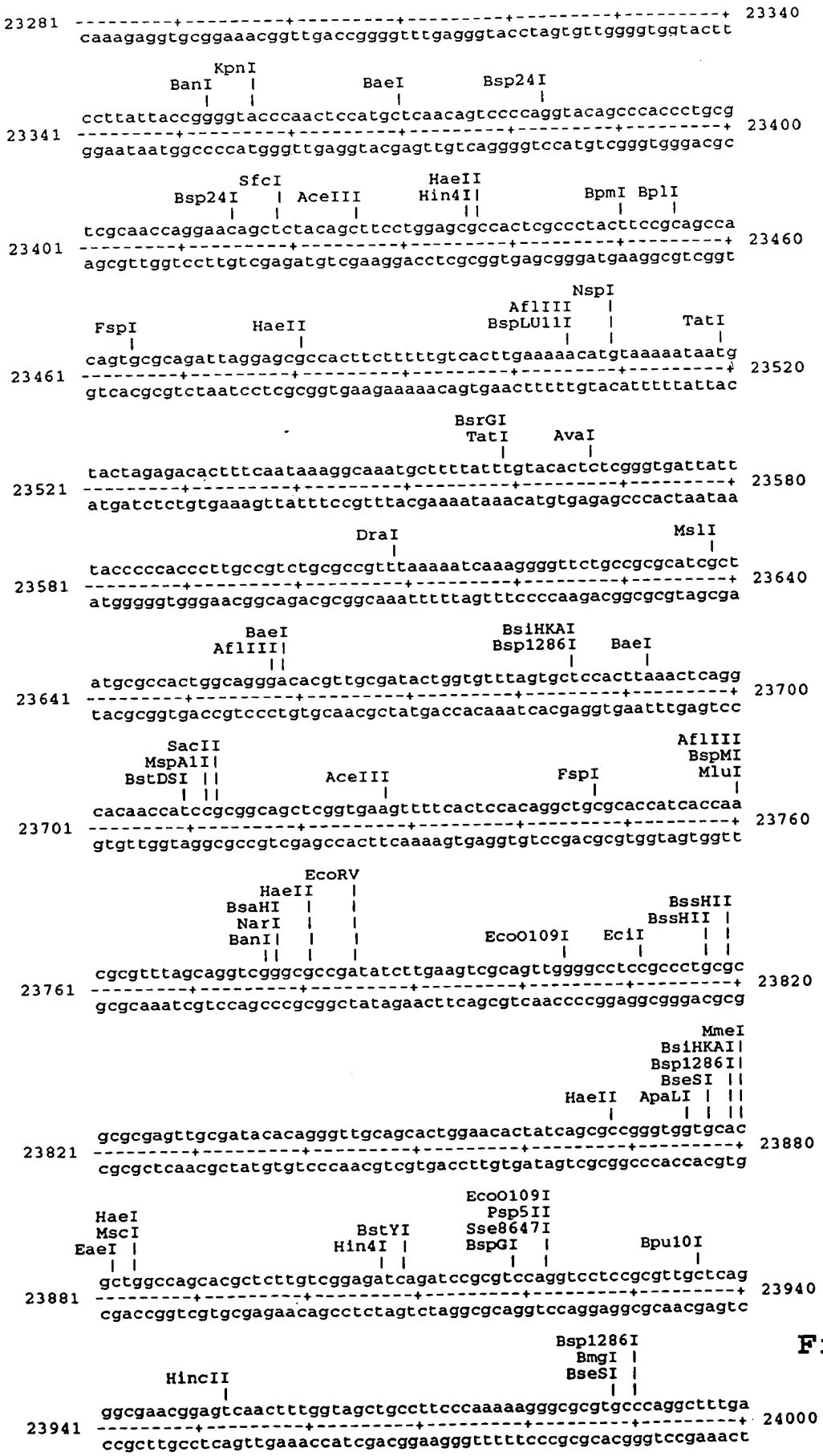
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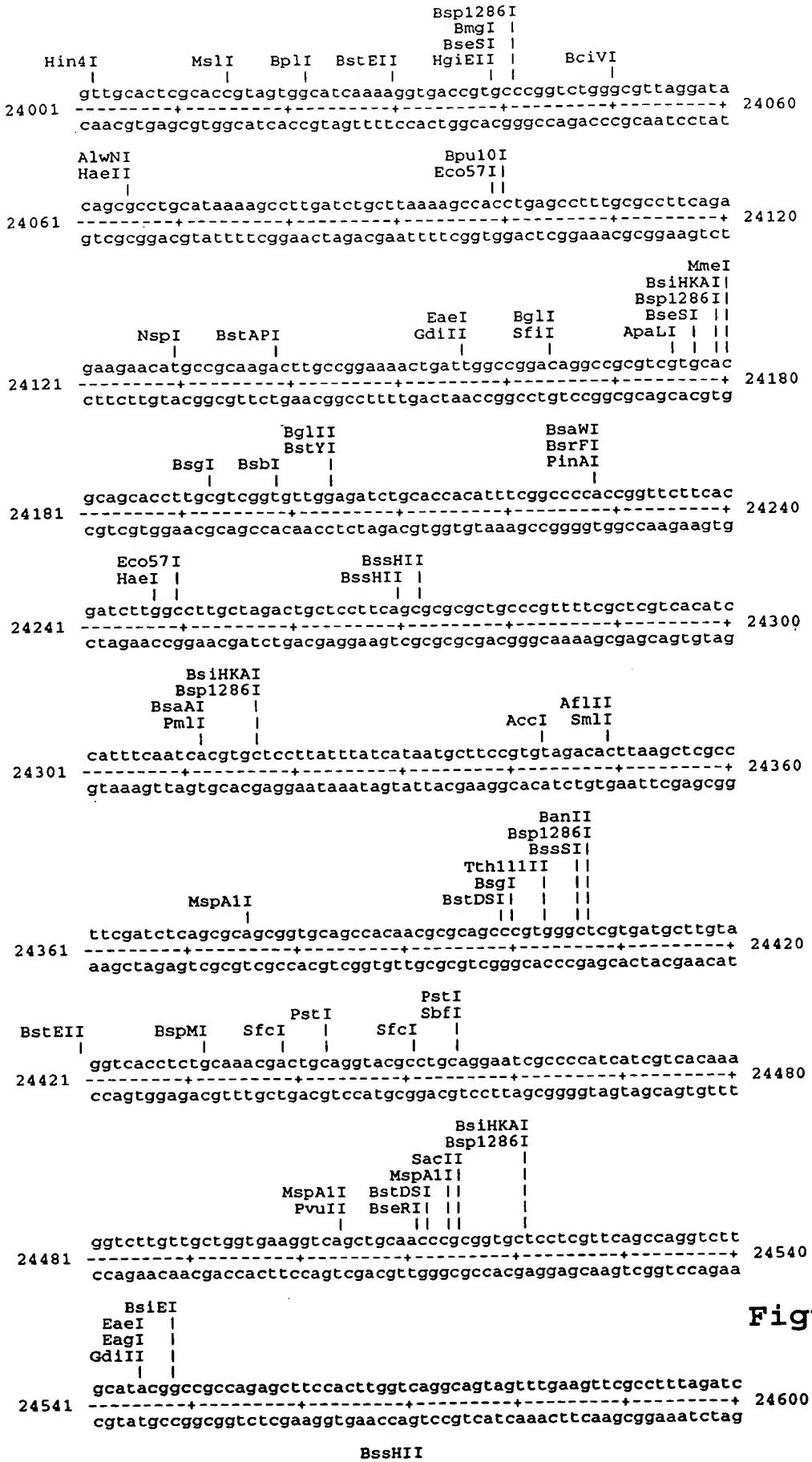
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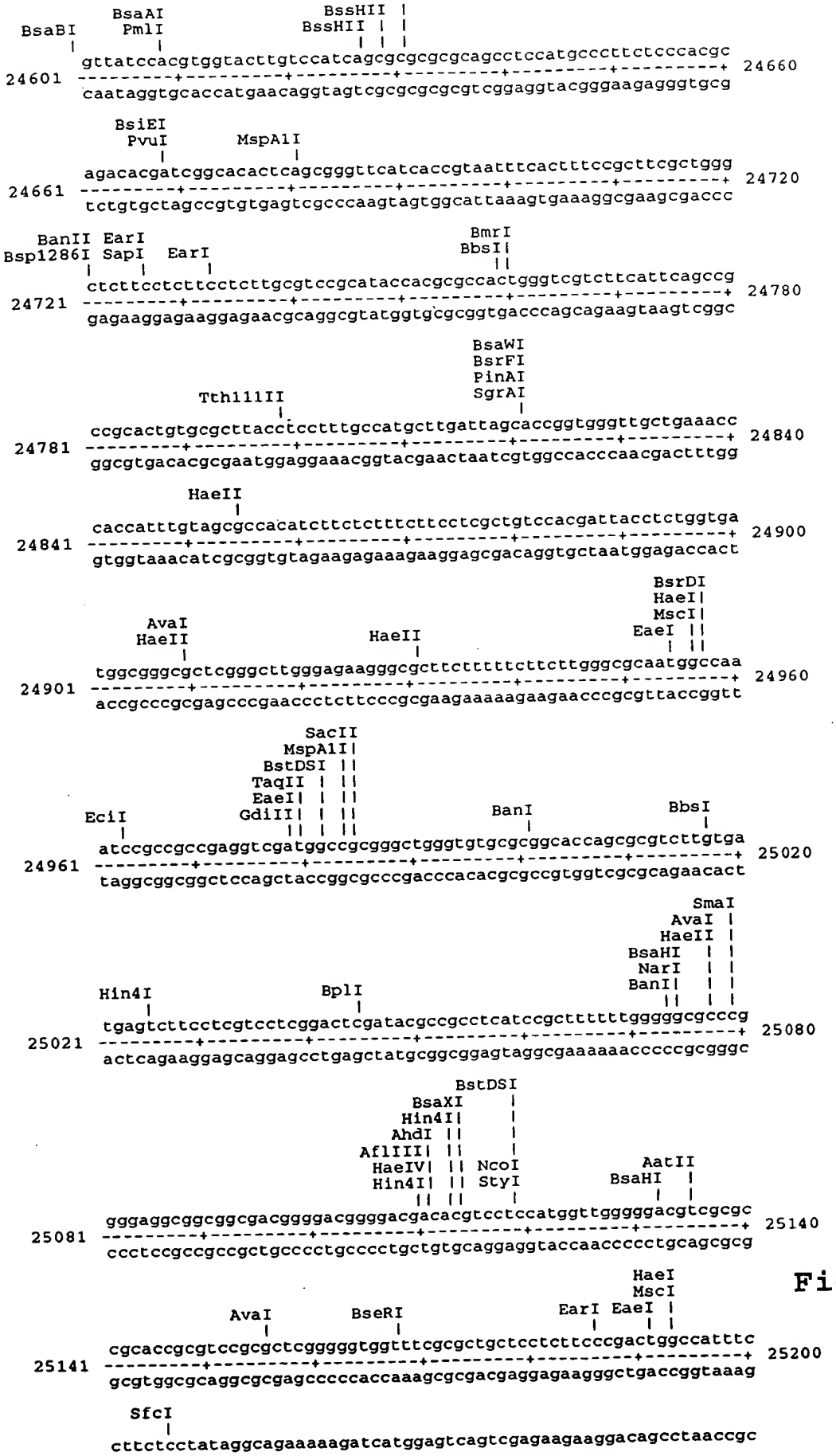
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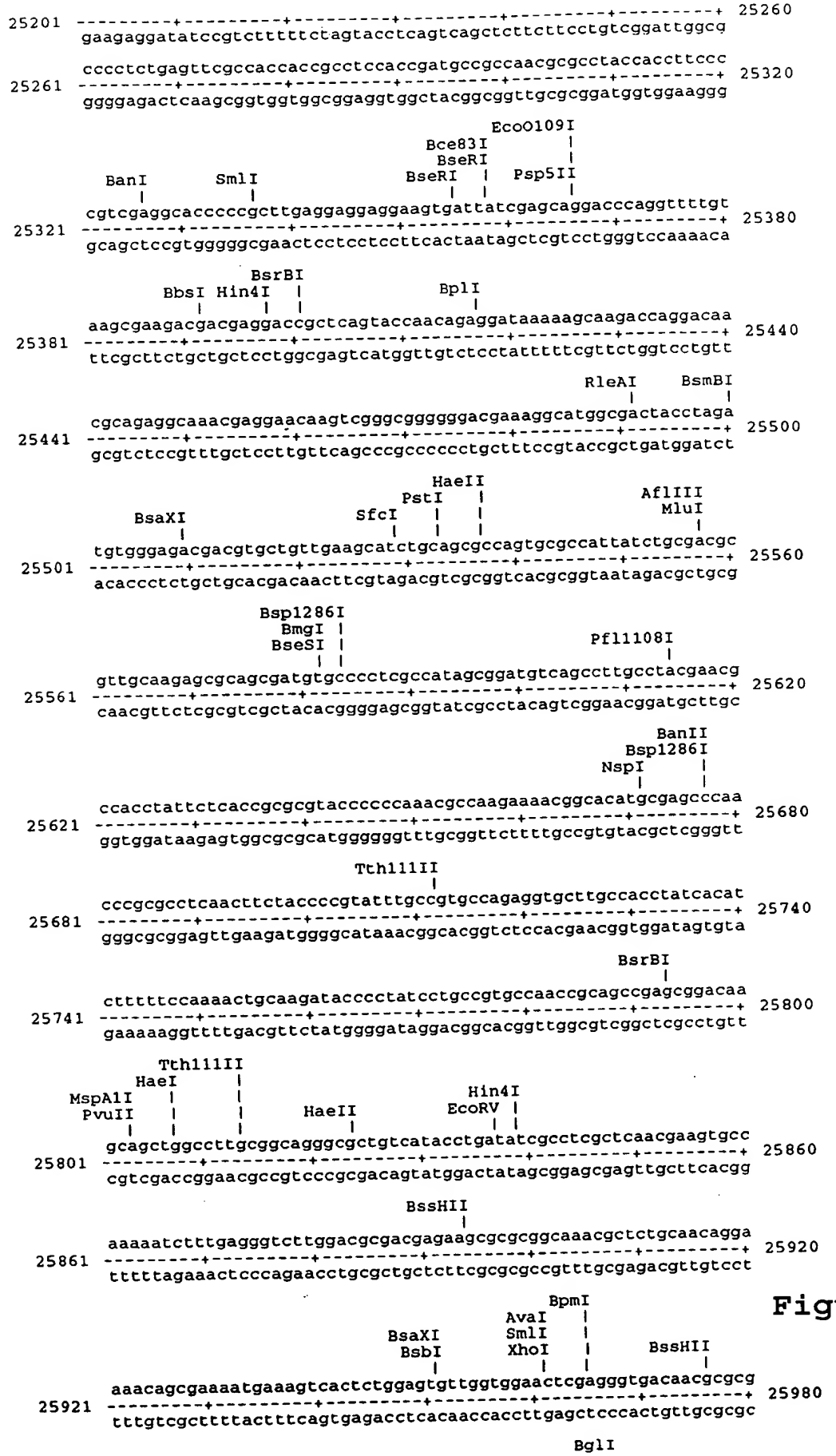
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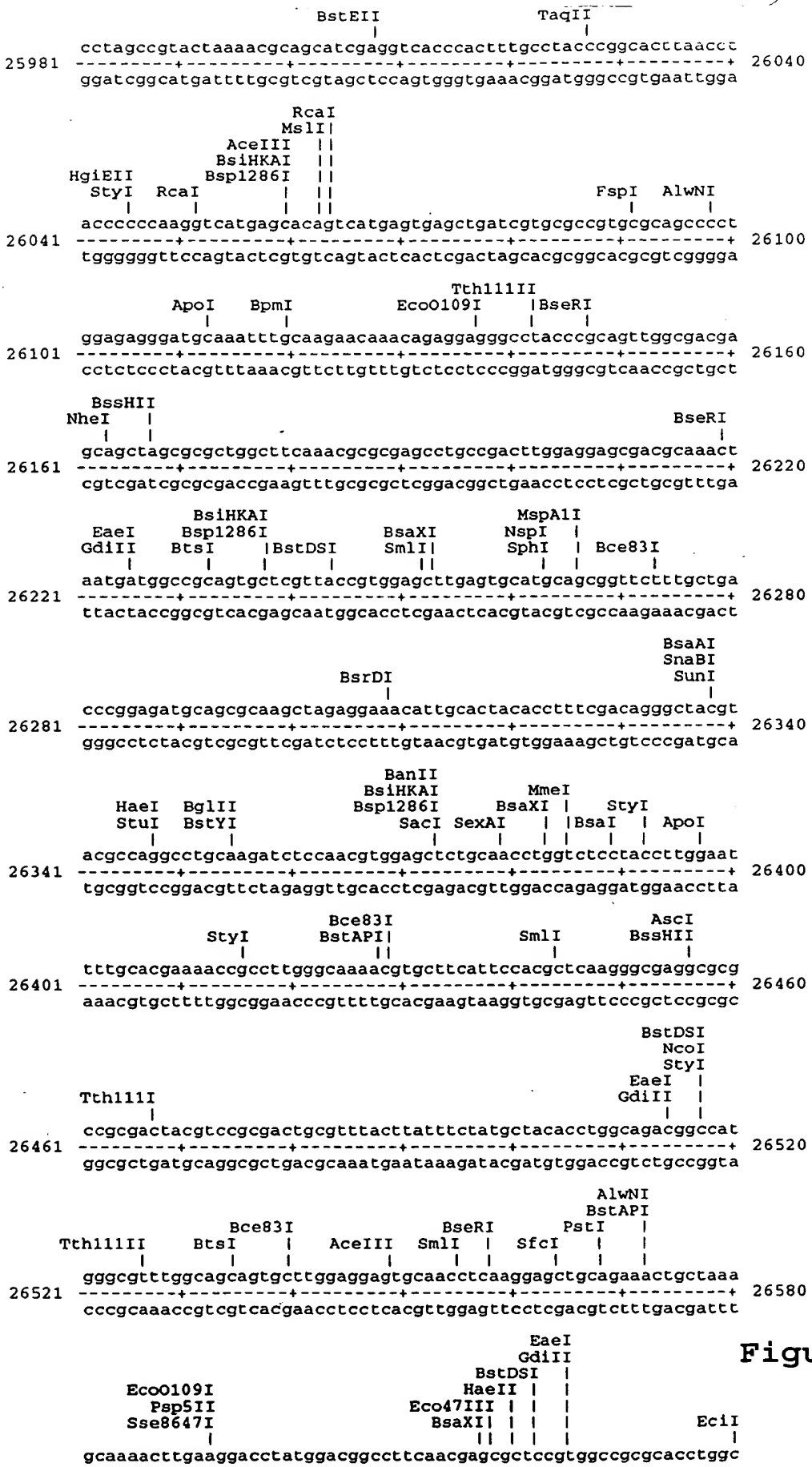
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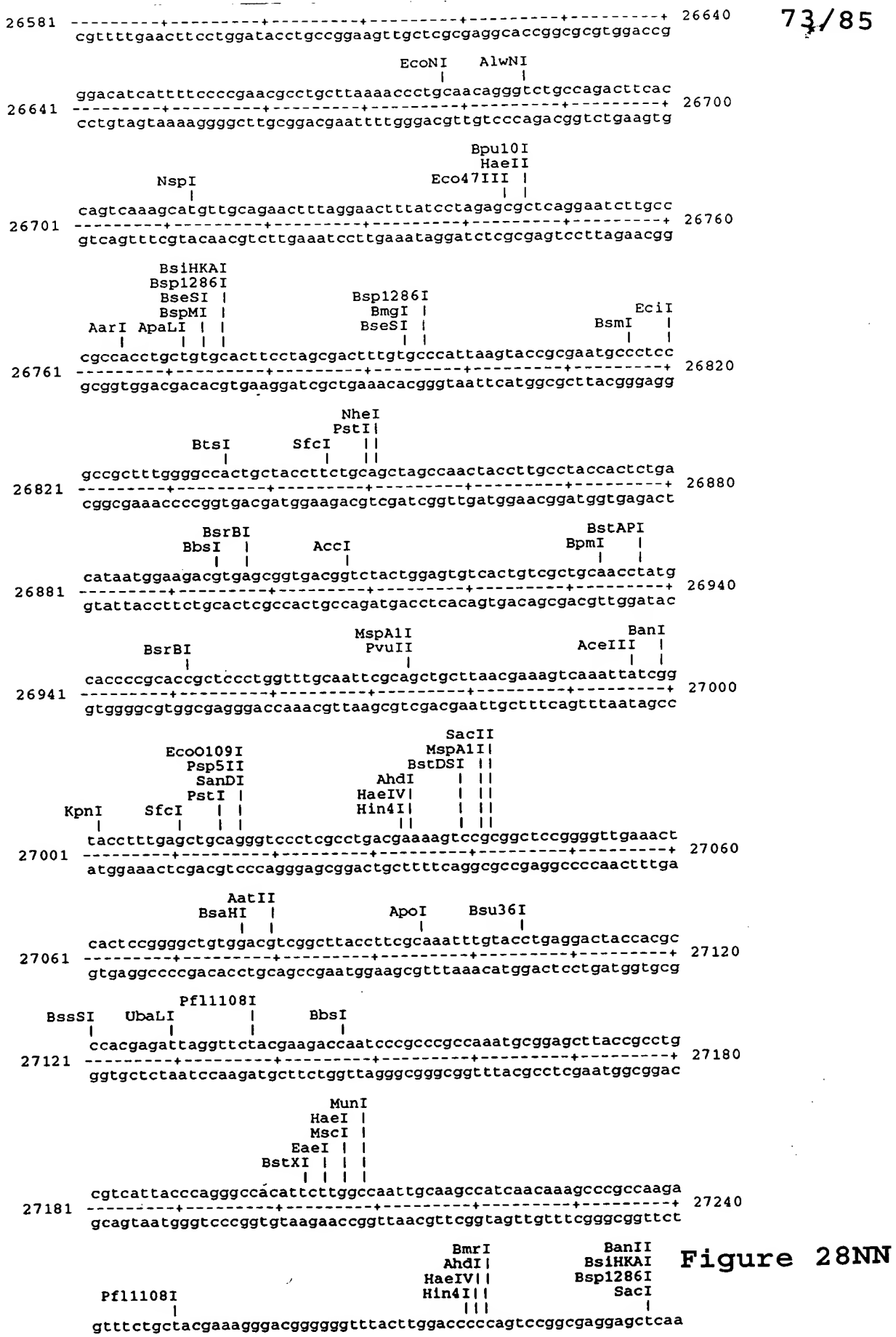
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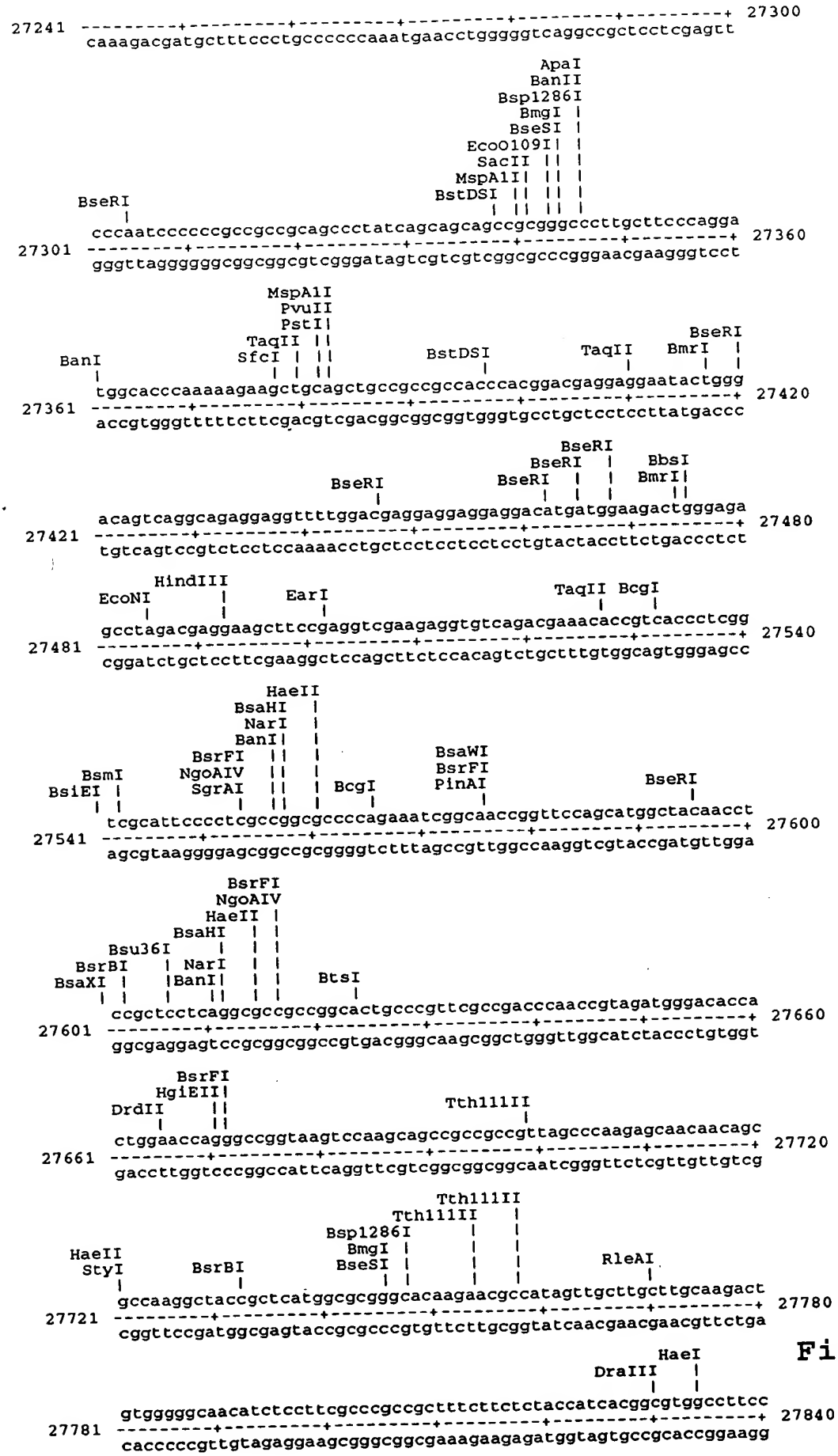
Figure 28NN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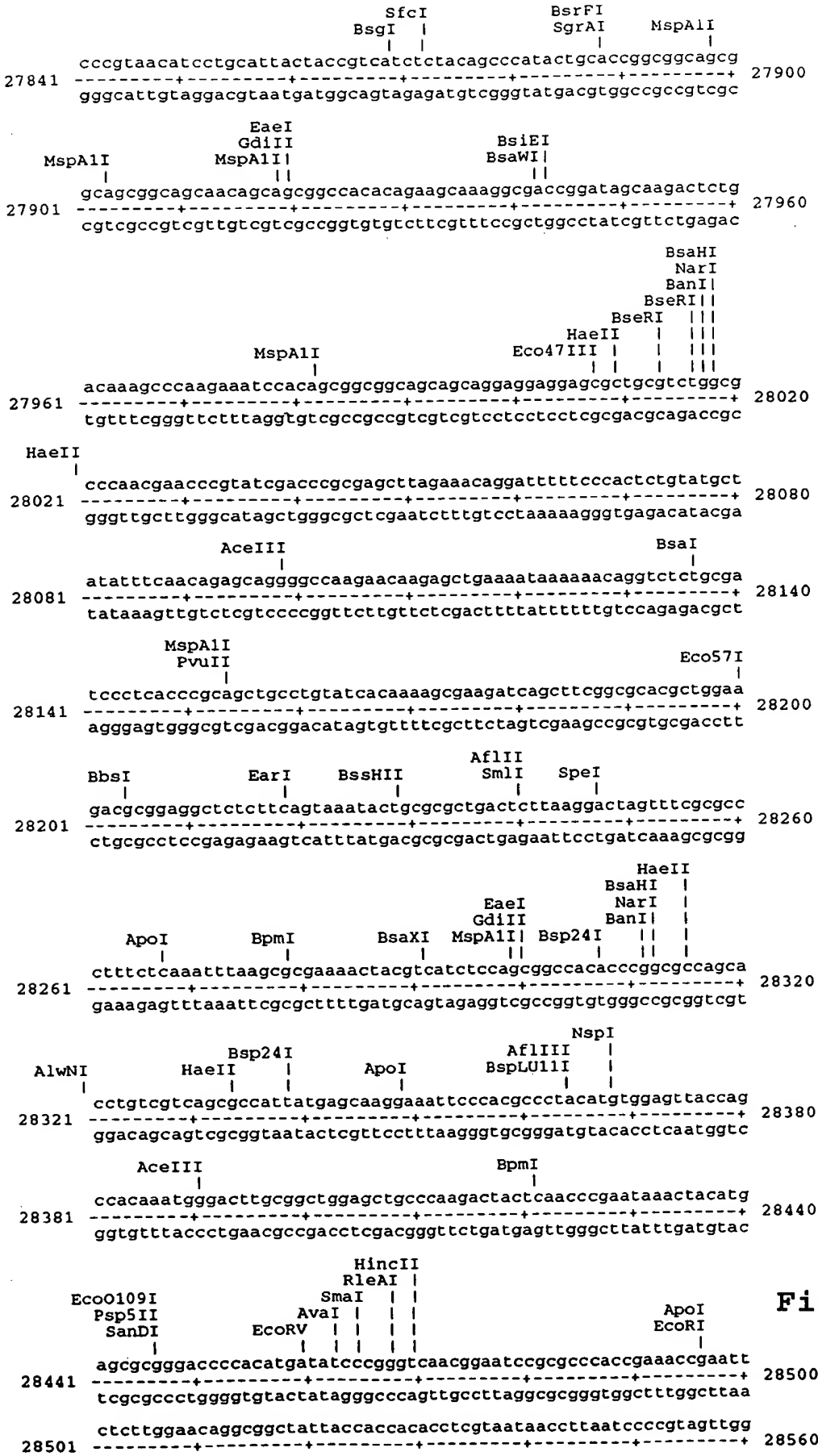
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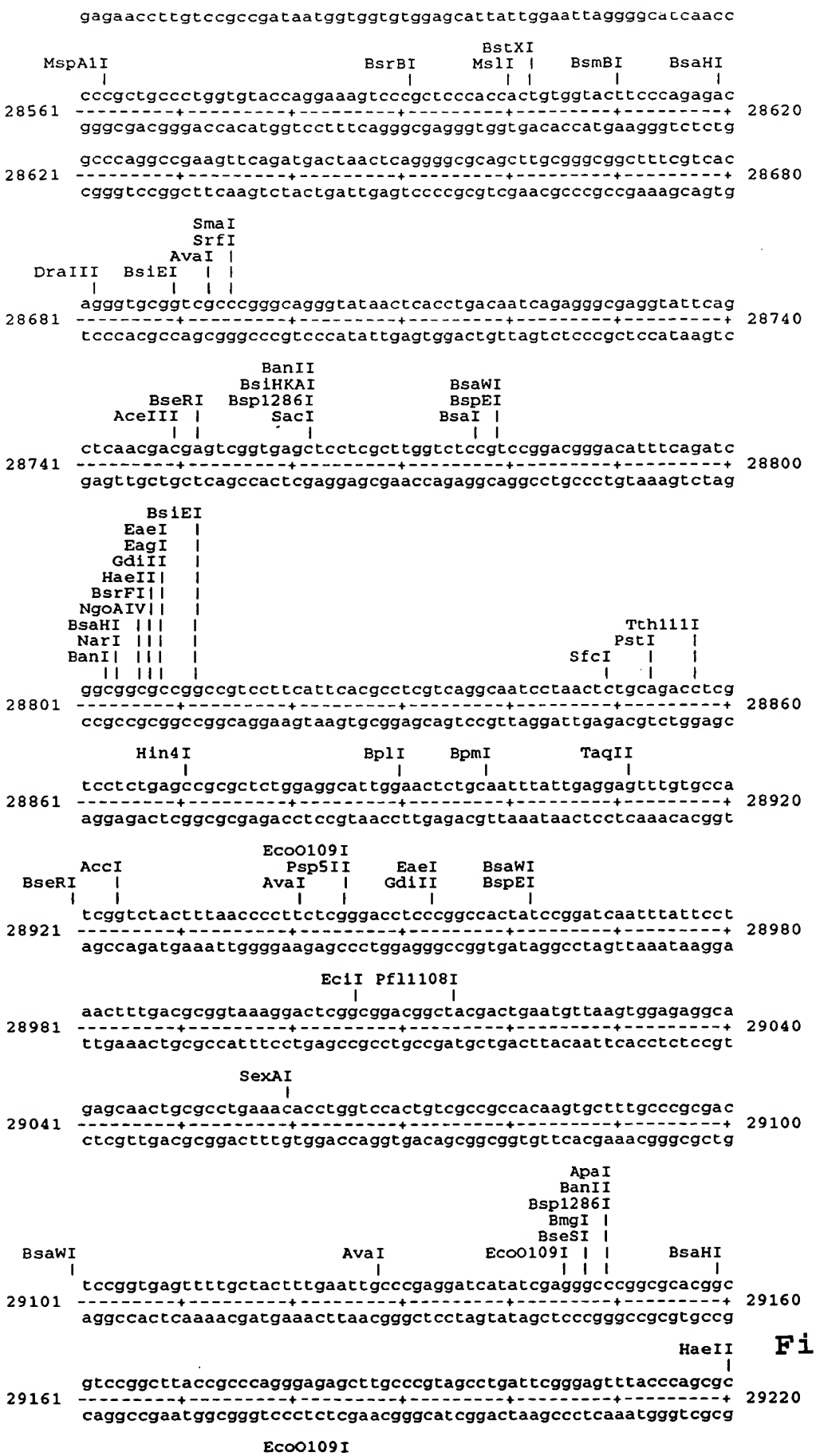
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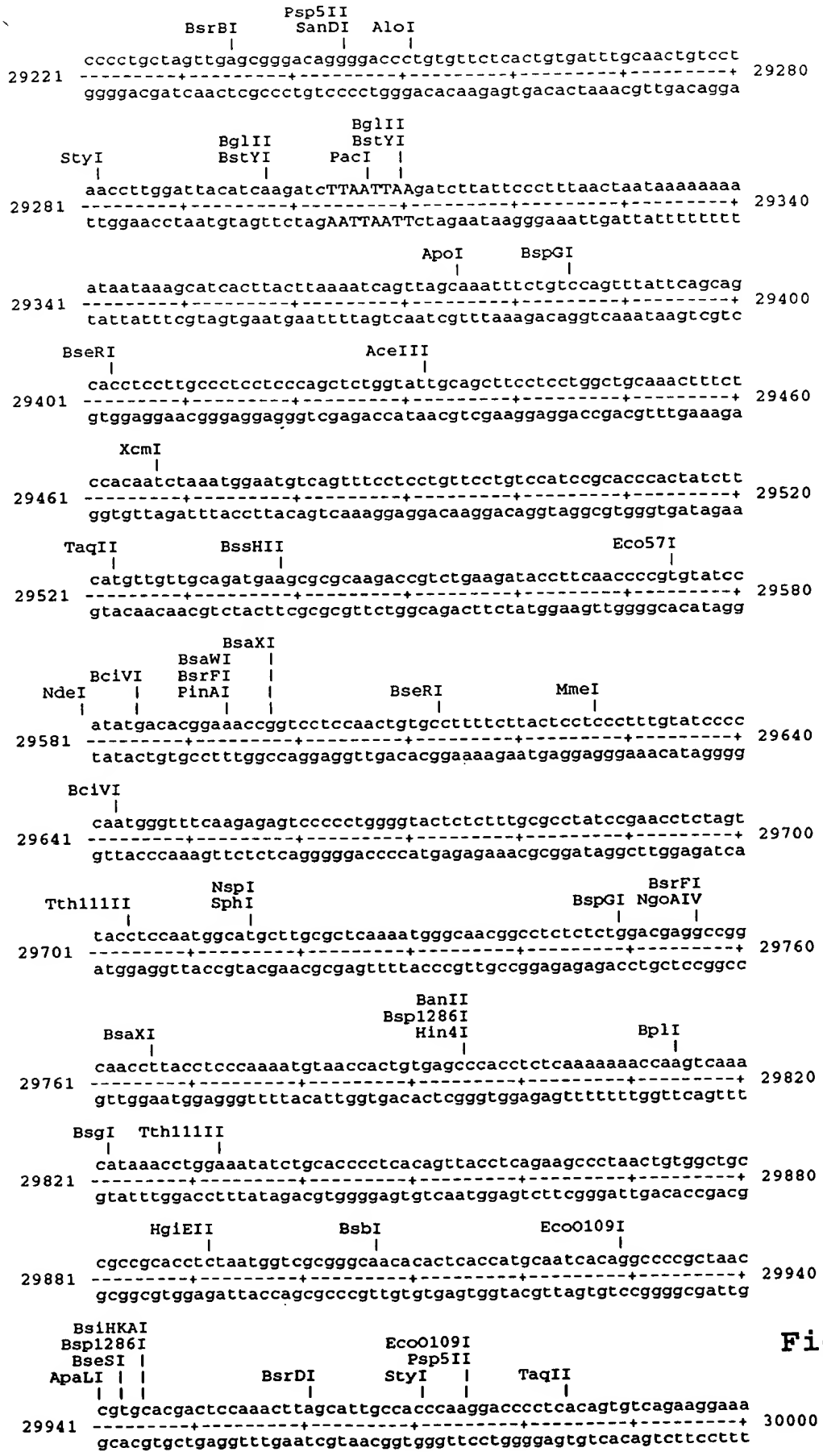
Figure 28QQ

77/85



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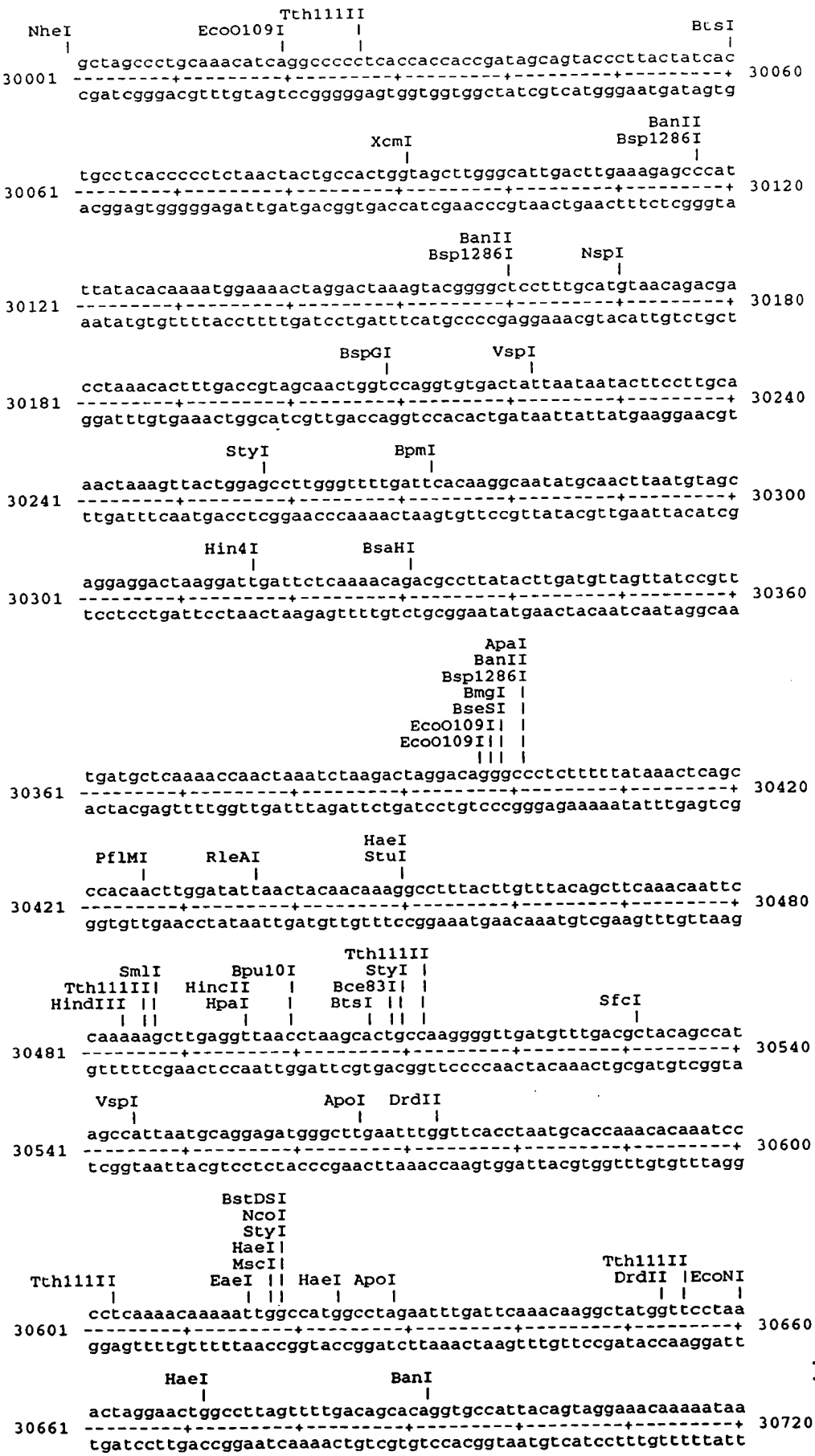
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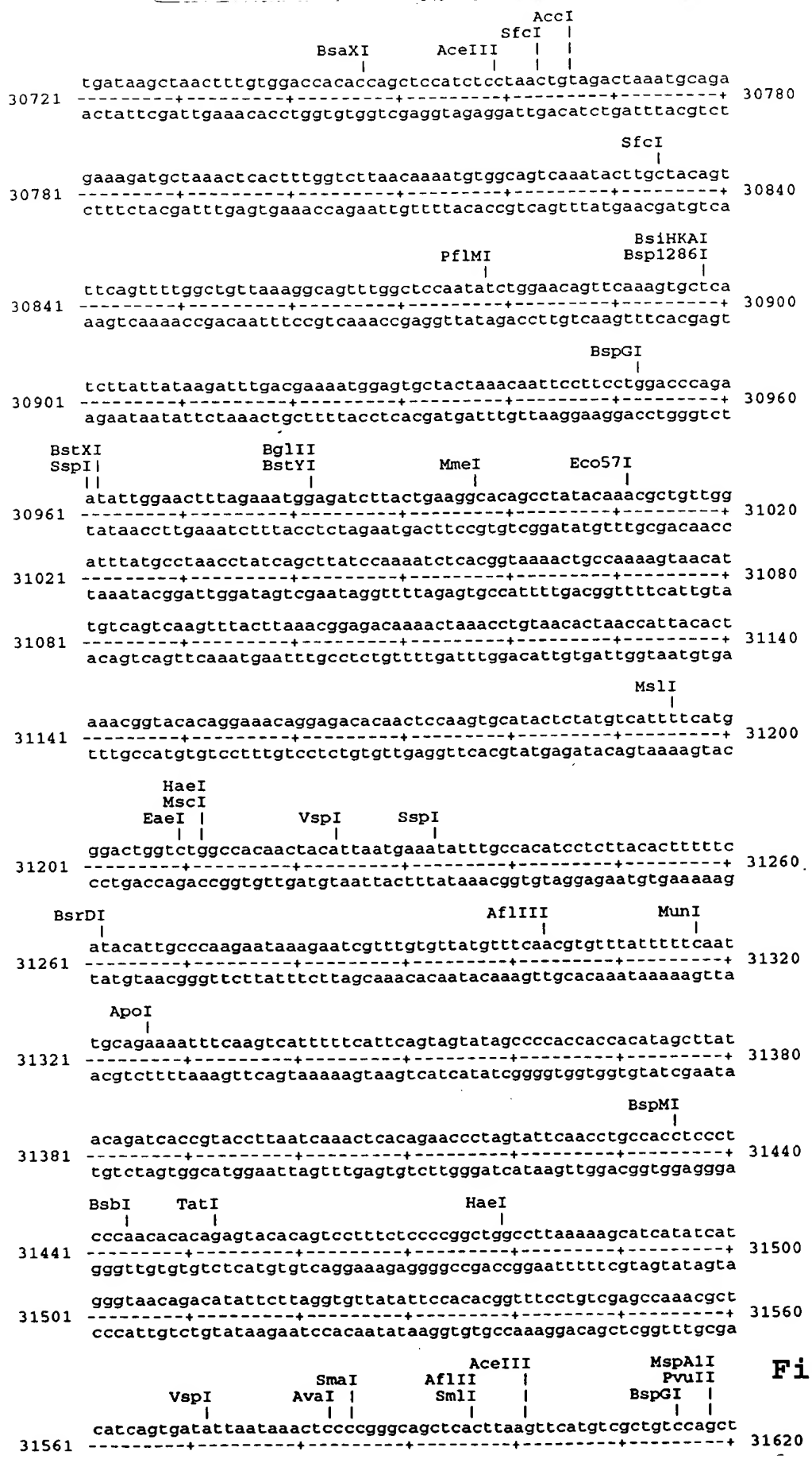
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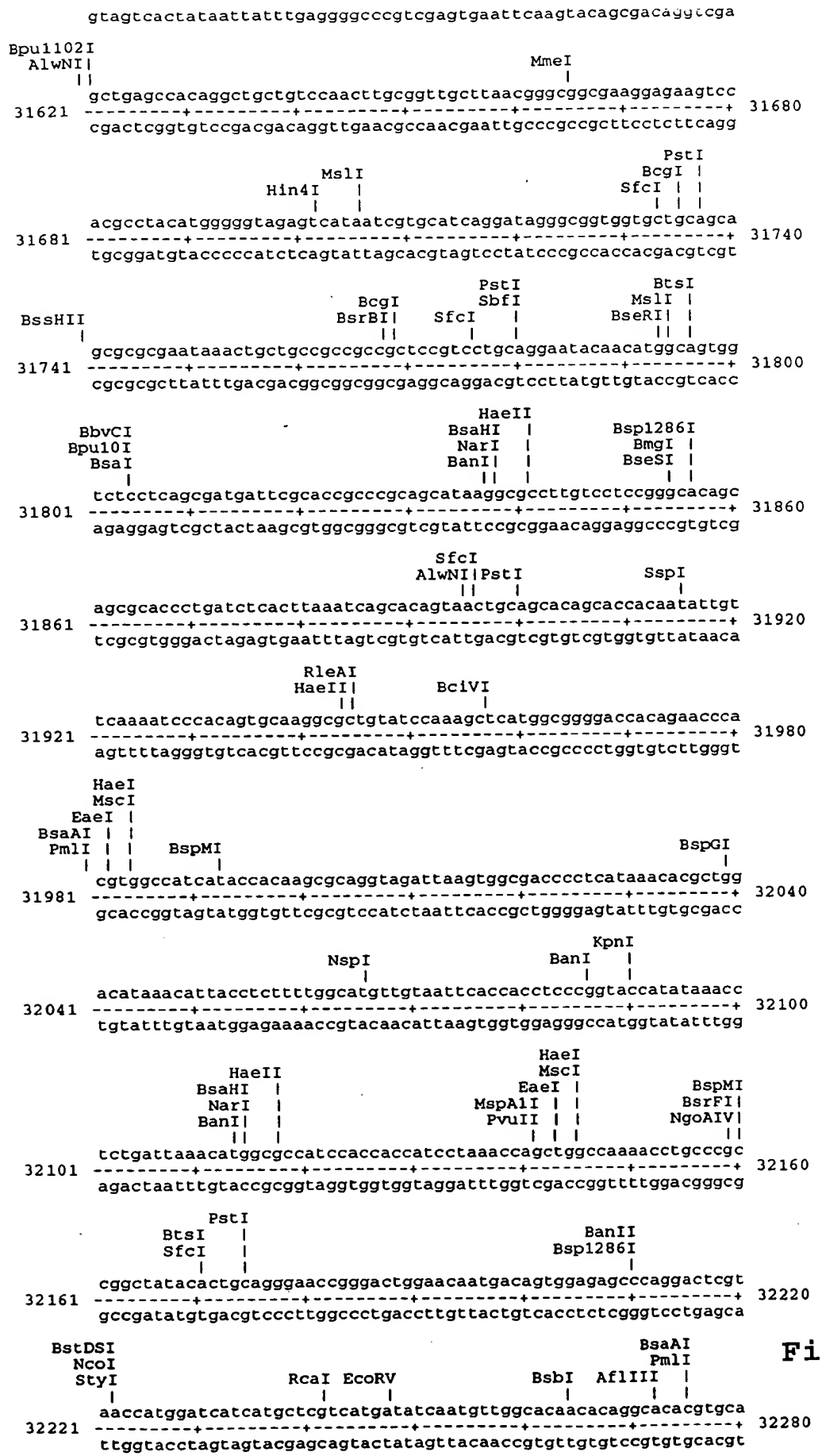
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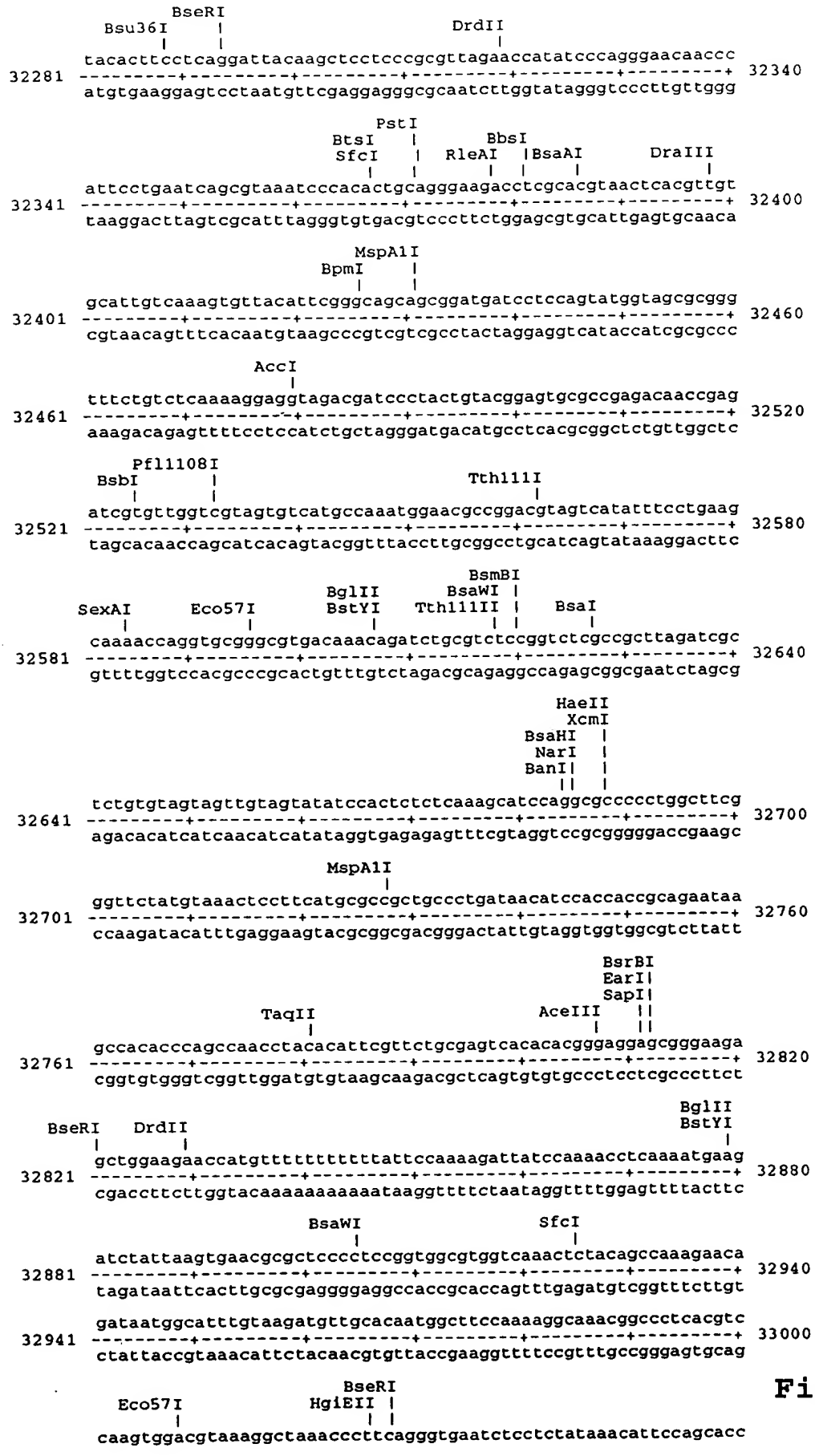
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BstYI
BsaWI
Tth111II
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BsaI
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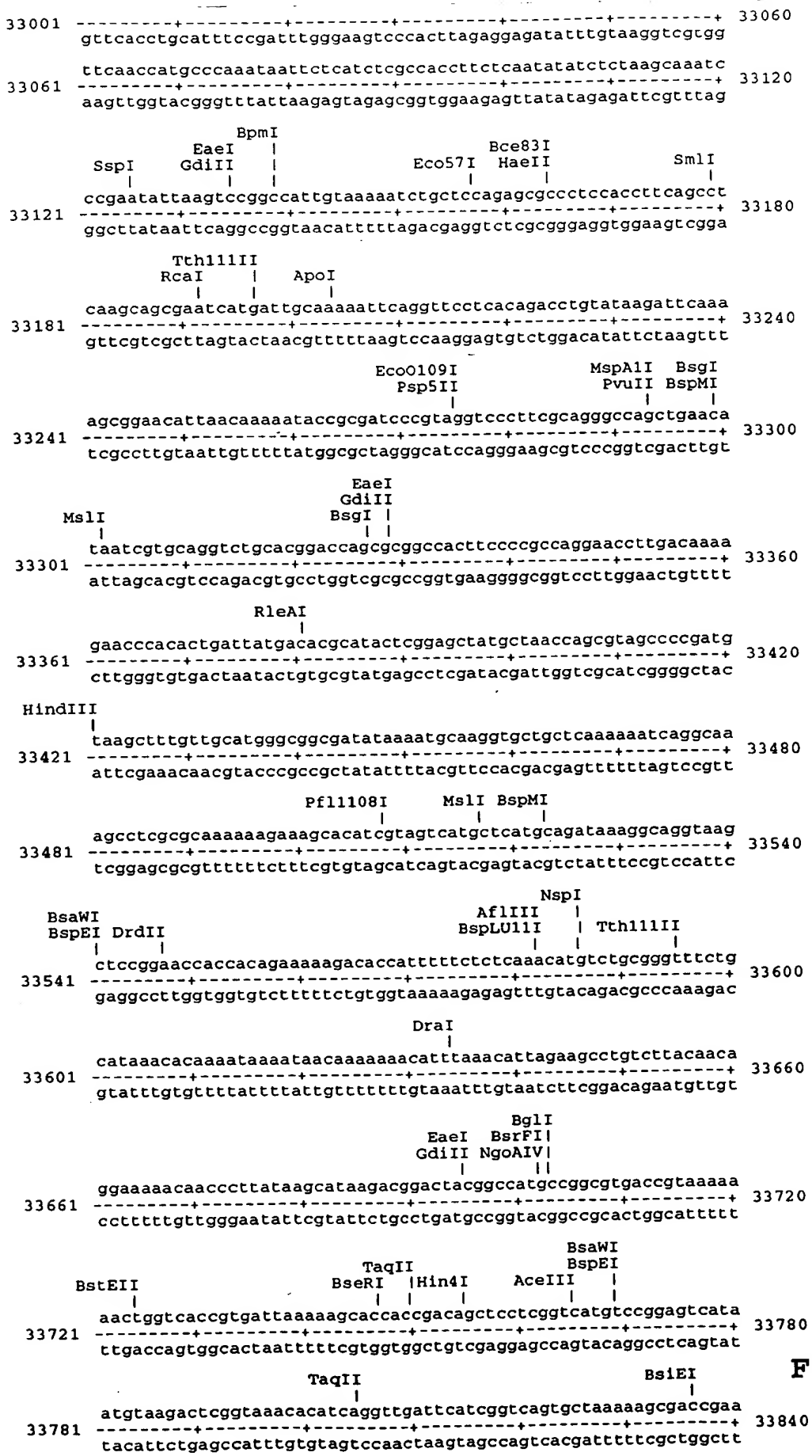
Figure 28VV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Tth111II
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BspEI
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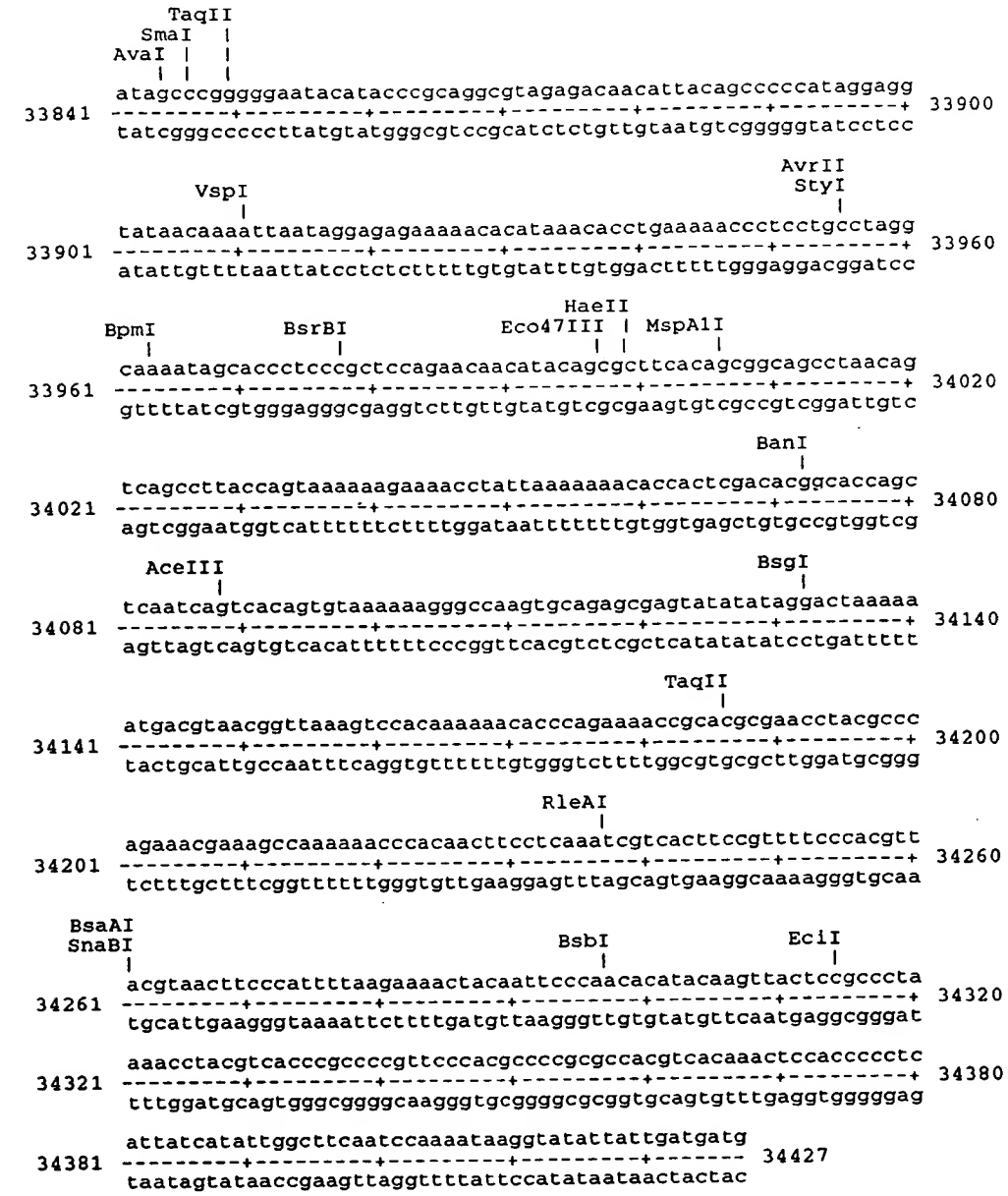
Figure 28WW



Enzymes that do cut:

AarI	AatII	AccI	AceIII	AclI	AflII	AflIII	AhdI
AloI	AlwNI	ApaI	ApaLI	ApoI	AscI	AvaI	AvrII
BaeI	BamHI	BanI	BanII	BbsI	BbvCI	Bce83I	BcgI
BciVI	BclI	BglI	BglII	BmgI	BmrI	BplI	BpmI
Bpu10I	Bpu1102I	BsaI	BsaAI	BsaBI	BsaHI	BsaWI	BsaXI
BsbI	BseRI	BseSI	BsgI	BsiEI	BsiHKAI	BsmI	BsmBI
Bsp24I	Bsp1286I	BspEI	BspGI	BspLU11I	BspMI	BsrBI	BsrDI
BsrFI	BsrGI	BssHII	BssSI	BstAPI	BstDSI	BstEII	BstXI
BstYI	BstZ17I	Bsu36I	BtsI	ClaI	DraI	DraIII	DrdI
DrdII	EaeI	EagI	EarI	EciI	Eco47III	Eco57I	EcoNI
Eco0109I	EcoRI	EcoRV	FseI	FspI	GdiII	HaeI	HaeII
HaeIV	HgiEII	Hin4I	HincII	HindIII	HpaI	KpnI	MluI
MmeI	MscI	MslI	MspA1I	MunI	NarI	NcoI	NdeI
NgoAIV	NheI	NotI	NruI	NsiI	NspI	PacI	Pfl1108I
PflMI	PinAI	PmeI	PmlI	PshAI	Psp5II	PstI	PvuI
PvuII	RcaI	RleAI	RsrII	SacI	SacII	SalI	SanDI
SapI	SbfI	ScaI	SexAI	SfcI	SfiI	SgfI	SgrAI
SmaI	SmlI	SnaBI	SpeI	SphI	SrfI	Sse8647I	SspI
StuI	StyI	SunI	SwaI	TaqII	TatI	Tth111I	Tth111II
UbaLI	VspI	XbaI	XcmI	XhoI	XmnI		

Enzymes that do not cut:

NspV

Figure 28XX

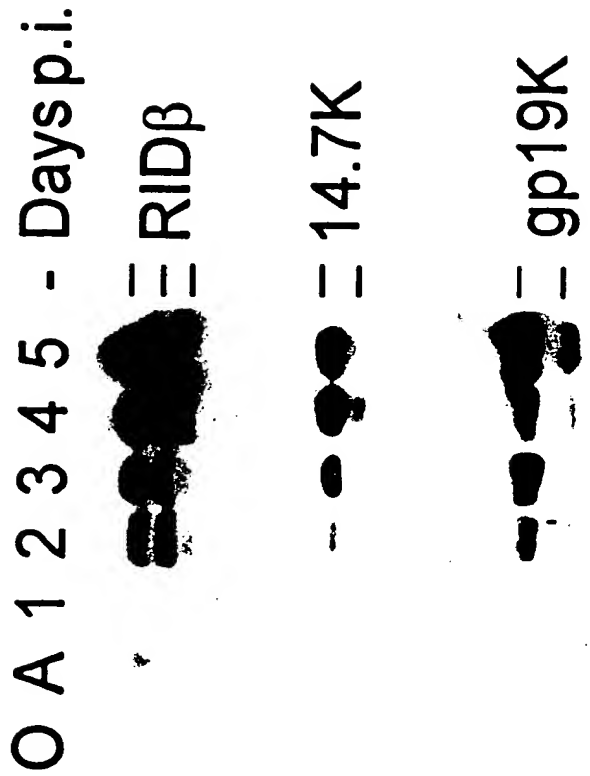


Figure 29

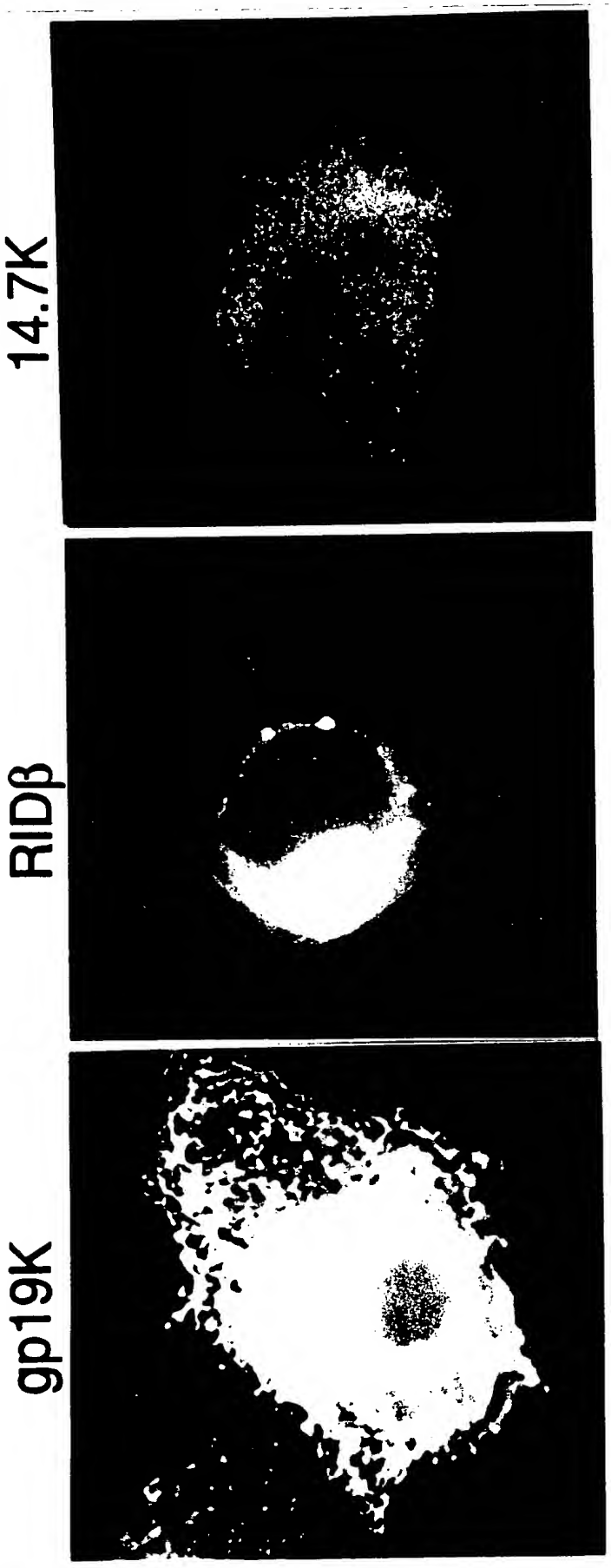


Figure 30C

Figure 30B

Figure 30A